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Wild Game Photographer

ORGANIZED FOR THE INCREASE AND DIFFUSION OF GEOGRAPHIC KNOWLEDGE

TO carry out the purposes for which it was founded forty seven years ago the National Geographic Society publishes this Magazine monthly. All receipts are invested in the Magazine itself or expended directly to promote geographic knowledge.

ARTICLES and photographs are desired for material which the Magazine can use. Generous remuneration is made. Contributions should be accompanied by addressed return envelope and postage.

THE Society also had the honor of subscribing a substantial sum to the expedition of Admiral Peary who discovered the North Pole and contributed \$75,000 to Admiral Byrd's Antarctic Expedition.

NOT long ago The Society granted \$25,000 to the expedition of Professor Hayden to the Arctic.

THE Society's notable expeditions to New Mexico have pushed back the historic horizons of the Southwestern United States to a period of prehistoric times.

THE Society's expeditions to the Amazon have revealed the true nature of the great river and its tributaries.

THE Society's expeditions to the Andes have revealed the true nature of the great mountain range and its tributaries.

THE Society's expeditions to the Pacific have revealed the true nature of the great ocean and its tributaries.

THE Society's expeditions to the Atlantic have revealed the true nature of the great ocean and its tributaries.

THE Society's expeditions to the Indian Ocean have revealed the true nature of the great ocean and its tributaries.

THE Society's expeditions to the Arctic have revealed the true nature of the great ocean and its tributaries.

THE Society's expeditions to the Antarctic have revealed the true nature of the great ocean and its tributaries.

AT an expense of over \$50,000 The Society sent a notable series of expeditions into Peru to investigate the traces of the Incas race. Their discoveries form a large share of our knowledge of a civilization existing when Spanish Conquistadors first entered Peru.

CUMULATIVE INDEX

TO THE

National Geographic Magazine 1899 to 1934, inclusive

With a Foreword

The National Geographic Society and Its Magazine

By GILBERT GROSVENOR



NATIONAL GEOGRAPHIC SOCIETY

WASHINGTON, D C

U S A

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WASHINGTON, D. C.

THE NATIONAL GEOGRAPHIC SOCIETY AND ITS MAGAZINE

By GILBERT GROSVENOR

THIS book is the key to a treasure trove—the vast store of information concerning the world, its peoples and creatures published in the brilliantly illustrated pages of the NATIONAL GEOGRAPHIC MAGAZINE from 1899 to the present year.

Almost unbelievable is the growth in the number of members of the National Geographic Society and the readers of its Magazine in that 36 year interval. When your present Editor and President was asked by Alexander Graham Bell to take charge of The Magazine, in April, 1899, The Society's membership was so small that he could carry the entire edition of one month on his back. Today a single issue would form a pile more than five miles high rivaling Mount Everest, or 50 piles, each as tall as the Washington Monument. The ink alone used in printing each issue weighs five and a quarter tons—as much as 70 men could carry.

In those early days it was customary to print in The Magazine the names and addresses of the members. To do so today in small type allowing 50 names to a page would require 20 000 pages, filling solidly more than 12 years of GEOGRAPHICS without another word or a single picture.

READ BY FIVE MILLION PERSONS

A welcome guest in a million homes, The Society's Magazine with its appeal to all members of the family is estimated to have reached each month during the last 15 years an average of 5 000 000 readers.

To collect print and distribute on such a scale the enormous reservoir of valuable geographic knowledge indexed on the following pages is a publishing labor of Hercules which no individual or small group of individuals would even undertake. The method by which it has been accomplished is as unique as the material itself and the story is the remarkable history of the National Geographic Society.

Nowhere in the world is there another magazine exactly like the NATIONAL GEOGRAPHIC. In its conception contents and policy it differs wholly from any other publication. It is published and owned by a society of a million members organized for the increase and diffusion of geographic

knowledge. Its purpose is and always has been to promote science and education and it educates in the most effective way by portraying this thrilling world and its life in clear, vivid, comprehensible manner, stripped of dull technical verbiage, and mirrored in many striking pictures.

Who can even begin to estimate the cultural results of distributing this readable, easily understood humanized, and picture-ized knowledge among millions of people not only of the United States, but of foreign lands decade after decade?

Some of the ablest minds in America have contributed their talents to the organization and building of The Society. Graduates of 35 colleges and universities now carry on its researches and editorial work.

The many millions of dollars required to publish these 36 years of GEOGRAPHICS have been supplied year after year by the dues of the members of the National Geographic Society, who have increased from 1 000 in 1899 when the first number herein indexed was printed to 1,000 000 in 1935. Their modest three dollar annual dues pay for 12 numbers of The Magazine with frequent maps and other supplements and also sustain The Society's numerous scientific expeditions and researches.

Thus the National Geographic Society is a cooperative scientific research undertaking. Only by spreading first cost over a large edition could the many expensive and worthwhile features have been provided. All The Society's activities, its Magazine and its expeditions are sustained by the membership fees of its million members.

Thus extraordinarily large membership in a Society whose objects are entirely scientific and educational in which the bond is intellectual not religious or fraternal or social shows that the spirit of adventure and the desire to learn and help research are fairly universal.

The Society's membership rolls include not only hundreds of thousands of the country's most cultured and substantial people but also hundreds of thousands of citizens possessing only modest educational and material advantages.

The lonely forest ranger, the clerk tied to his desk, the plumber, the teacher, the



THIS STately STRUCTURE ON HISTORIC SIXTEENTH STREET IN WASHINGTON IS THE NATIONAL GEOGRAPHIC SOCIETY'S HOME

Here in a modern air-conditioned building are housed The Society's editorial and executive headquarters its library of 250,000 black and white and natural-color photographs from every corner of the world a completely equipped photographic laboratory and Explorers Hall in which are preserved priceless trophies of Geographic expeditions and enlargements from staff photographers finest negatives Hubbard Memorial Hall (extreme right) home of The Society during its early days was presented as a memorial by the family of the late Gardiner Greene Hubbard its first President (see text page XVI) It now houses The Society's fine library of geography and exploration

eight year-old boy and the octogenarian, cannot, like a Carnegie or a Rockefeller, send out their own expeditions, but they do enjoy having a part in supporting explorations conducted by their own Society and reading the first hand accounts in their own Magazine

THE SOCIETY'S FLAG BORNE ON ADVENTUROUS JOURNEYS

Other than the flag of my country I know of no greater privilege than to carry the emblem of the National Geographic Society With these words Rear Admiral Richard E. Byrd expressed his high regard for your Society's achievements in increasing humanizing, and diffusing geographic information

Among The Society's many significant contributions to science and popular education we mention a few

Archeological Expeditions The Society's notable expeditions to New Mexico by Neil M. Judd and Andrew E. Douglass have pushed back the historic horizons of the southwestern United States to a period nearly eight centuries before Columbus crossed the Atlantic solving secrets that have puzzled historians for 300 years The Society's expeditions to Peru have given the world much of its knowledge of the Incas

Solar Radiation To further the study of long range weather forecasting The Society appropriated funds to enable the Smithsonian Institution to maintain a solar radiation station in Africa for six years

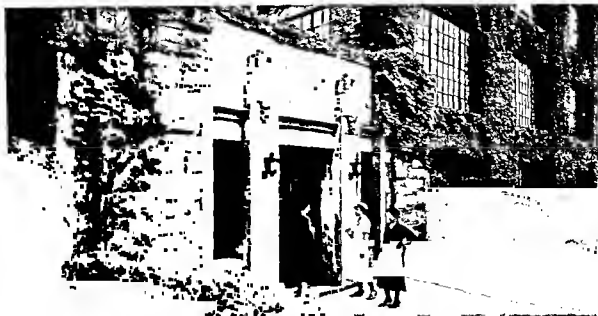
The Valley of Ten Thousand Smokes After the eruption of the world's largest crater Mount Katmai The Society sent five expeditions to this Alaskan volcanic area An eighth wonder of the world was discovered—the Valley of Ten Thousand Smokes—which has since been created a National Monument

Saving the Giant Sequoia Trees The Society and individual members purchased and presented to the Government 2,239 acres of the finest giant Sequoia and other trees within the Sequoia National Park

Carlsbad Cavern The Society's expeditions explored and revealed to the world this largest and most beautiful known cavern in New Mexico

Exploration of the Stratosphere The Society and the U. S. Army Air Corps jointly sponsored explorations of the stratosphere to gather scientific information at an altitude approaching 13 miles above sea level

Polar Research The Society granted funds and scientific aid amounting to \$75,000 to Admiral Byrd for his first exploration of the South Polar regions and also cooperated with the second Byrd Antarctic Expedition Admiral Byrd first gained experience in Arctic flying on the MacMillan Arctic Expedition sponsored by The Society and the U. S. Navy The Society had the honor of subscribing a substantial sum to the historic expedition of Admiral Peary who discovered the North Pole April 6 1909



EACH MONTH A MILLION GEOGRAPHICS ARE ADDRESSED AND SENT OUT FROM THE GEOGRAPHIC ANNEX BUILDING AT THIRD AND R STREETS, NORTHEAST, WASHINGTON

In The Society's Annex which occupies a city block, a complete record of each membership is kept and the huge daily mail of thousands of letters from members scattered all over the world is received and answered. Back numbers of The Magazine and The Society's publications such as books, pictures, and maps are preserved here. More than 300 employees working in the Annex take care of the membership nominations, mail out Certificates of Membership and make the thousands of necessary changes of address for members.

Trans Asiatic Expedition. In 1932 the Citroen Haardt Trans Asiatic Expedition with The Society cooperating crossed Central Asia from the Mediterranean to the Yellow Sea. Long hidden phases of life along 7,370 miles of historic caravan routes were studied and recorded for posterity.

It should be noted that under "National Geographic Society Expeditions" in the index, only the more technical ones are listed. The Society's photographers and writers have made too many expeditions to be indexed as such, and these will be found under the name of the country, State, or region visited.

A LIBRARY OF PERMANENT INTEREST

When bound these 432 issues from 1899 through 1934 form a library of 55 large volumes of considerable monetary value. For a complete set collectors pay hundreds of dollars. Yet a person joining The Society at its formation in 1888 and continuing a member until 1935 would have received this entire collection for \$88 in dues, or a life membership might have been purchased in 1888 for \$50. It is hard to conceive of a better dividend paying investment, even when only the financial aspect is considered and the incalculable cultural and entertainment value is ignored.

In collecting GEOGRAPHICS many persons have found an absorbing and sometimes remunerative pursuit. A single number published in the early years may bring from seven to eighty dollars, depending upon its condition and the scarcity of the particular issue.

A copy of THE GEOGRAPHIC rarely outlives its interest. Few indeed ever find their way back to the paper mills. The quality of the paper is so excellent that numbers printed more than a quarter of a century ago are still as sound and legible as when they were issued. More volumes of THE GEOGRAPHIC are bound than of any other magazine, and the binding of GEOGRAPHICS has become a big business. The bound copies are constantly consulted by students, teachers, travelers, artists, scientists, persons in a hundred walks of life. Most large public libraries, schools, and numerous individuals have complete or nearly complete files and to make the voluminous contents more readily accessible, this cumulative index is issued.

The subject matter covers almost the entire range of Nature, from the ant to the elephant, from the humming bird to the trumpeter swan, from tiny tropical fish to the gigantic whale from the microscopic

spores of mold to the mighty eucalyptus and sequoia trees. It deals with nearly every part of the earth, from the teeming pavements of New York and London to equatorial jungle and polar wastes.

Here, in a photograph, a solitary Moslem kneels beside his camel amid the dreary dunes of the desert, turns his face toward far away Mecca, and strikes his turbaned brow against the sands in obeisance at the hour of prayer. There, a handsome Romanian peasant girl barefoot, in gaily embroidered dress, strides through the cool waters of a mountain stream, her water pitchers swinging from a stick across her shoulder, the joy of living in her eye and step, perhaps she is in love.

Such pictures leave an unforgettable impression. As an old Chinese proverb has it, they are more eloquent than 10 000 words!

EXTRAORDINARY PICTORIAL RECORDS

Even more important than their esthetic appeal is the educational, scientific, and historical value of THE GEOGRAPHIC'S pictures, which contribute not only to current information but also to man's accumulated store of knowledge. For historians, ethnologists and scientists of future generations, The Society's rich album of natural color photographs—reproduced for us and posterity in The Magazine by four color photo-engraving—will constitute a priceless, not-to-be-duplicated record authentic in proportion and tint of the costumes, scenery, architecture and daily life of the civilized nations and isolated tribal communities of the present age. Already thousands of costumes have been copied from these pages.

In The Society's library is a complete index and cross index to every picture. The Magazine has ever printed. It contains nearly 200 000 cards. In another part of The Society's headquarters its priceless collection of more than 208 000 unused photographs reposes in 350 asbestos lined, fireproof cases.

Among The Society's pioneering achievements in photography—in the laboratory and in the field—are these:

1. First to make and publish natural color photographs of Arctic life. First magazine publication of aerial pictures of the North Pole and of aerial photographs of the South Pole.

2. George S. H. S. J. d. a Trustee of The Society made the first flashlight pictures of wild animals in their natural habitats.

3. Capt. Albert W. Stevens, conducting scientific observations for The Society, took the first photograph showing laterally the curvature of the earth, and important aerial photographs of the advancing shadow of the moon on the earth's surface during an eclipse of the sun. On the National Geographic Society U. S. Army Air Corps Stratosphere Flight of 1934 he took the world's highest altitude photograph of the earth. All were published exclusively in THE GEOGRAPHIC.

4. First successful natural color photographs undersea by Charles Martin, Chief of The Society's photographic laboratory, the first extensive series of successful natural color photographs of aquarium fishes in action by Edwin L. Wisner of the photographic staff.

5. First natural color photographs from the air by Melville Bell Grosvenor, an Assistant Editor of The Magazine.

6. First to take and publish natural color photographs of the Valley of Ten Thousand Smokes and the Mount Katmai volcanic region in Alaska by Robert F. Griggs, leader of six Geographic Society Alaska expeditions.

7. First to take and publish an extensive series of natural color photographs of the United States by Clifton Adams, Franklin Price, Knott Jacob Gayer, B. Anthony Stewart, Richard Stewart and Edwin L. Wisner, all of The Society's staff.

8. W. Robert Moore of The Society's staff made the only natural color photographs of the coronation of the Emperor of Ethiopia. took the first natural-color photographs of hill tribes of Burma and Siam and the first extensive series of natural color photographs of South America ever published.

9. The first natural color photographs in regions of the Tibetan borderlands by Joseph F. Rock, leader of Society expeditions.

10. The first progressive series of photographs from the Mediterranean to the Yellow Sea by Maynard Owen Williams, Chief of the Foreign Editorial Staff.

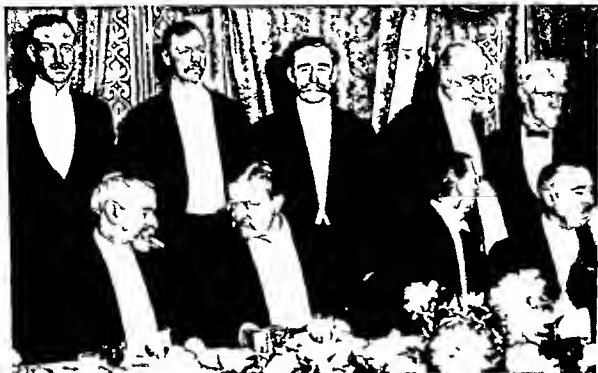
11. The first comprehensive color photographs of European countries by Gervais Courtellemont, Hans Hildenbrand, Luigi Pellerano and Wilhelm Tobien.

The NATIONAL GEOGRAPHIC is the only magazine that systematically photographs in natural colors. It reproduces more full color photographs than any other publication.

One issue may carry the reader up the Andes. Another may show him the splendors of the Taj Mahal or picture strange exotic peoples in the fastnesses of Tibet. Opening a volume at random he finds 800 flags of the world reproduced in color. In another are all the breeds of dogs.

OPENS MILLIONS OF EYES TO NATURE'S WONDERS

In transporting its members in fancy to far places THE GEOGRAPHIC has not lost sight of the wonderland of Nature which lies at every man's door. Through its



O'Harris & Ewing

A GEOGRAPHIC LUNCHEON IN HONOR OF COLONEL THEODORE ROOSEVELT

On his return from his explorations in Africa in 1910 and again from South America in 1914 Colonel Roosevelt gave to the National Geographic Society in Washington his first public lecture announcing his discoveries.

From left to right seated—J. J. Jusserand the French Ambassador, Colonel Theodore Roosevelt, Gilbert Grosvenor, Director and Editor National Geographic Society, Juan de Riano the Spanish Ambassador. Standing—Frederick V. Coville, George Shiras 3d, Admiral Robert E. Peary, General A. W. Greely and General John M. Wilson, members of the Board of Managers of the National Geographic Society.

efforts millions of eyes have been opened to the beauties of the forests and national parks, the birds, wild flowers and animals, the wonders of plant and insect life. Notable is the current series of paintings by Maj. Allan Brooks of the birds of North America, with accompanying human interest biographies of these feathered neighbors by persons of wide reputation in this field.

From a page in one of the earlier volumes peers a surprised wildcat, bathed in the dazzling brightness of a photographic flash. His debut in *THE GEOGRAPHIC* marked the beginning of the publication of the valuable series of photographs made by Mr. Shiras, inventor of methods of taking pictures of wild animals at night by flashlight, and for 15 years the sole photographer to make such pictures. As the first successful photographer of wild life by day or night, he did much to popularize the sporting and absorbing game of hunting birds and animals with a camera, and making them take their own photographs.

In another early issue appear the awe-inspiring monsters of our back yards, mere grasshoppers and other small insects, but fearsome, strangely made, absorbing creatures as pictured in greatly enlarged photographs taken by Dr. David Fairchild, another veteran member of The Society's Board.

HISTORIC NARRATIVES OF AVIATION AND EXPLORATION

Beginning with Alexander Graham Bell's historic papers on man lifting kites and aerial locomotion, *THE GEOGRAPHIC* has published more about aviation than any other magazine of general circulation.

In its pages are recorded in word and picture the personal narratives of explorers and trail blazers by land, sea and air, from Peary and Amundsen to Byrd and Lindbergh. Among these gripping first-hand stories are those of Captain Stevens of the National Geographic Society U. S. Army Air Corps Stratosphere Balloon Expeditions, Dr. Hugo Eckener of the *Graf*

Zeppelin, Stefansson, Shackleton, de Pinedo, Nobile, Dargue, Auguste Piccard, Kingsford Smith, Ross Smith, Macready, Mittelbolzer, Alan Cobham, Amelia Earhart, Anne Morrow Lindbergh (see p. 6)

In the files of THE GEOGRAPHIC you will find General Goethals' account of the building of the Panama Canal

Here, too, are the travel observations of statesmen—Taft, Theodore Roosevelt, Bryce, Coolidge, Curzon, Jusserand, Root, Grew, Bingham, Castle, of men of letters—Joseph Conrad, Donn Byrne, Scott O'Connor, A. J. Villiers, the work of famed naturalists and scientists—Alexander Graham Bell, S. P. Langley, Dittmars, Beebe, Chapman, Coville, Morley, Shiras, Nelson, Griggs, Jaggard, Rock, Andrews, Abbot, Greely, Allen, Murphy, Mann, Wetmore

Invaluable contributions to the understanding of our Nation both by its citizens and by members abroad are THE GEOGRAPHIC's important series of articles on the States and chief cities of the United States. Beginning with John Oliver La Gorce's article on Pennsylvania, the series of State stories now has covered more than half of the 48 Commonwealths of the Union, and represents the most comprehensive task of its kind ever undertaken

There are many articles on islands, some remote and seldom visited. Among them are Falcon Island, a 'hide and seek' spot of land in Polynesia which literally has its ups and downs, Bogoslof, another volcanic jack-in-the-box, lonely Easter Island, with its mystifying statues reared by a vanished people, Juan Fernandez, the Robinson Crusoe island, Yap and the other Pacific islands under Japanese mandate. There are also articles on islands nearer home, 'The Isle of Capri,' about which so much has been sung the Channel Islands, Malta, the Orkneys, Cyprus, Guala, etc.

With progress in archeological exploration The Magazine has kept step year by year

From Nebuchadnezzar's Palace at Babylon where the Hand wrote on the Wall, to the tomb of King Tutankhamen to the ancient Harem of Xerxes at Persepolis to Maya temples in Mexico, Inca ruins in Peru and pueblos in our own Southwest dated by the tree ring, in their charred and weathered beams, the continuous story of modern science's steady uncovering of mysterious lost civilizations is carefully recorded in THE GEOGRAPHIC

A clear, up-to-date picture of this changing world is brought to members from time to time by special large map supplements in color, made by The Society's own cartographers with infinite care and ingenious methods. No expense in time, money, or effort is spared to make these maps equivalent to many volumes of reference information. A million copies of each are printed

Maps are the shorthand of geography, and special processes make it possible to concentrate into those issued by The Society a maximum of material without crowding and with a clarity of lettering that has been the envy of cartographers in other parts of the world. By a specially devised technique place names are photographed onto the map instead of being printed. Paper and inks are carefully selected to insure the perfection and durability of the finished product

Sometimes the big color presses are stopped in full stride to make a change in the name or the status of an area in the light of fast minute developments on the world stage. Many a place which is of peculiar and particular interest but too small to be shown on most maps will be found on those of The Society

Since March, 1915, this cartographic work has been directed by Albert H. Bumstead. It was Mr. Bumstead who invented the sun-compass which Admiral Byrd used on his polar flights. 'Without it,' Byrd declared, 'we could not have reached the Pole'

Constantly The Society and The Magazine are declaring dividends to their million member-owners in a finer, fatter publication, in worth while map and pictorial supplements, in the fruits of far-seeing, long-visioned exploration in the stratosphere high above the earth, in the lower depths of the sea where no man before has gone alive, in Antarctica, 'the last continent of adventure'

THE GEOGRAPHIC'S REMARKABLE SUCCESS STORY

When all this is considered, it is easy to understand why so few members resign from The Society, why membership fell off by only a small percentage during the late depression, and why the roster of members is rapidly mounting again with the total well beyond the million mark

Instead of the tiny, one room office shared with another scientific organization

in April, 1899, The Society's executive staff now is housed in a handsome group of air-conditioned buildings, one of the finest in Washington, and owned by The Society, to which visiting members from all over the world are constantly being welcomed. Instead of a single paid employee The Society has some 700. Instead of debts it has a substantial reserve fund for exploration and research, built up by careful business management out of the small annual dues of members, and a valuable asset in its renowned Magazine.

The Editor is now in his 37th year of service as such. He can well remember his first visit, on April 1, 1899, to The Society's headquarters, which was half of a small rented room on the fifth floor of the Corcoran Building in Washington.

The little space of which he, age 23, was to assume charge was littered with old magazines, newspapers, and a few books of records, which constituted the only visible property of The Society. The treasury was empty, and had incurred a debt of nearly \$2,000 by the expenditure of its life membership fees to keep alive.

The National Geographic Society had been organized in 1888. At that time Grover Cleveland was nearing the end of his first administration. Life in Washington moved at a pace attuned to horses' hoofs and carriage wheels instead of speeding motor cars and airplanes. Movies and radio were not yet born.

Among a small group of public spirited scientists an idea stirred. To other thoughtful, serious minded men in January, 1888, went the following note, brief, unpretentious but laden with portent, for it was the first step in formation of a society which one day would extend its membership and its scientific influence around the world.

DEAR SIR You are invited to be present at a meeting to be held in the Assembly Hall of the Cosmos Club, Friday evening January 13, at 8 o'clock for the purpose of considering the advisability of organizing a society for the increase and diffusion of geographic knowledge.

Very respectfully yours,

GARDINER G HUBBARD
A W GREELY
J R BARTLETT
HENRY MITCHELL
HENRY GANNETT
A H THOMPSON

Of those six men, one, General Greely, is still alive today (in 1935) in his nineties, and still an honored member of The Society's distinguished Board of Trustees.

The invitation struck a responsive chord, and 33 men met at the Cosmos Club. The meeting was called to order by Professor Thompson, who stated its objects and nominated Capt C E Dutton as chairman. In the subsequent discussion of the formation of a geographic society, Messrs Hubbard, Bartlett, Thompson, Mitchell, Kennan, Gannett, Merriam, and Gore took part.

C Hart Merriam and J Howard Gore are valued members of The Society's Board of Trustees to this day.

The following resolution, introduced by Professor Thompson, was adopted:

Resolved

1. As the sense of this meeting that it is both advisable and practicable to organize at the present time a geographic society in Washington.

2. That this society should be organized on as broad and liberal a basis in regard to qualifications for membership as is consistent with its own well being and the dignity of the science it represents.

3. That a committee of nine be appointed by the chairman to prepare a draft of a constitution and plan of organization to be presented at an adjourned meeting to be held in this hall on Friday evening January 20 1888.

A committee for formulating a plan of organization was appointed, consisting of Messrs Hubbard, Greely, Bartlett, Mitchell, Kennan, Thompson, Gore, Tittmann, and Merriam.

In this list appears the name of still another of The Society's present Trustees, O H Tittmann.

A subsequent meeting was held on January 20, at which it was decided to incorporate The Society, and the same committee was continued to carry out that purpose. On January 27 The Society was incorporated, the following men signing the certificate of incorporation:

GARDINER G HUBBARD
C E DUTTON
O H TITTMANN
J HOWARD GORE
C HART MERRIAM
J R BARTLETT
ROGERS BIRNIE JR
GILBERT THOMPSON

J W POWELL
HENRY GANNETT
A H THOMPSON
A W GREELY
HENRY MITCHELL
GEORGE KENNAN
MARCUS BAKER

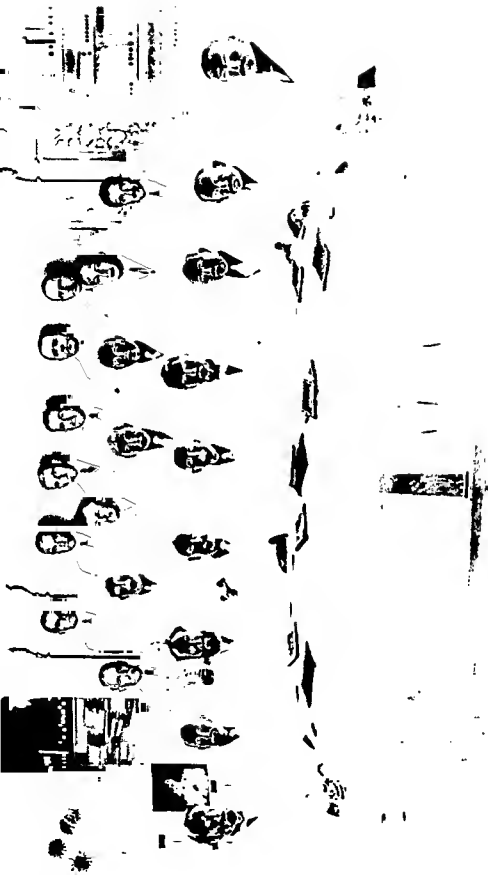
On the same day the first meeting of The Society was held in the Assembly Hall of the Cosmos Club, when it was organized.



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AT THE MOMENT OF THE UNFURLING OF THE PEARY MEMORIAL IN ARLINGTON NATIONAL CEMETERY, ON APRIL 6, 1922

On the platform from right to left: The Secretary of State and Mrs. Hughes; William Howard Taft, the Chief Justice of the United States who was President of the United States when the North Pole was discovered; and upon whose recommendation to Congress the explorer was created a Rear Admiral; the Ambassador of France and Mme. Jusserand; Dr. Gilbert Grosvenor, President of the National Geographic Society; the President of the United States and Mrs. Harding; Mrs. Robert E. Peary; Dr. F. W. Nelson; Captain Robert A. Bartlett; Edwin Denby, Secretary of the Navy; and the Reverend Dr. Charles Wood, lately consecrated by the flag (at the right) is Colonel Theodore Roosevelt, Assistant Secretary of the Navy.



THE BOARD OF TRUSTEES OF THE NATIONAL GEOGRAPHIC SOCIETY AT ITS MEETING DECEMBER 14, 1921, IN HUBBARD MEMORIAL HALL

Front row reading from left to right James Howard Gore O H Tuttmann Alexander Graham Bell William Howard Taft Gilbert Grosvenor, Henry White John Joy Edson C M Chester O P Austin Second row David Fairchild George Otis Smith George Shiras 3d Rudolph Kauffmann Charles J Bell Frederick V Coville George R Putnam Top row E Lester Jones Stephen T Mather T L Macdonald Grant Squires John Oliver La Gorce George W Hutchison (Absent because of illness A W Greely C Hart Merriam S N D North)

Photograph by Charles Marten

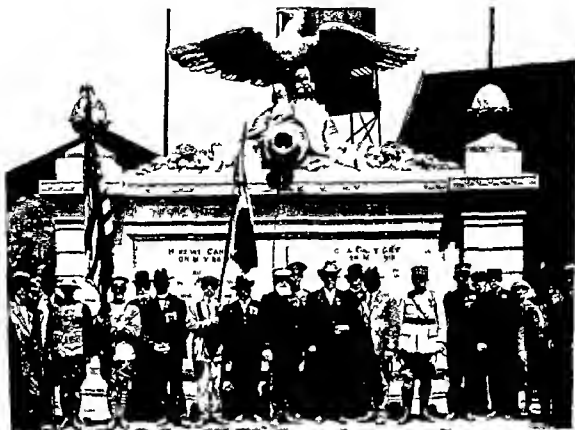


Photo graph by Maynard Owen Williams

DEDICATION OF THE SOCIETY'S MEMORIAL TO THE AMERICAN FORCES AT CANTIGNY

This fountain was the central feature of the water supply system which The Society presented to Cantigny in commemoration of the First Victory of the American Forces in France. At the extreme left is Col. Francis E. Drake of the American Legion. Standing between Mr. Emery, Prefect of the Somme, and the Mayor of Cantigny is Dr. J. Howard Gore, Chairman of the Memorial Committee, who represented the Board of Trustees and members of the National Geographic Society at the dedication on July 14, 1923.

by the election of the following officers and the adoption of by laws

President
GARDINER C. HUBBARD

Vice Presidents
HERBERT G. OGDEN A. W. GREELY
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The number of members who joined The Society at its organization was 165.

I am not a scientific man, nor can I lay claim to any special knowledge that would

entitle me to be called a 'geographer,' said President Hubbard in his first introductory address. I owe the honor of my election as President of the National Geographic Society simply to the fact that I am one of those who desire to further the prosecution of geographic research. I possess only the same general interest in the subject of geography that should be felt by every educated man.

By my election you notify the public that the membership of our Society will not be confined to professional geographers but will include that large number who, like myself, desire to promote special researches by others and to diffuse the knowledge so gained among men so that we may all know more of the world upon which we live.

By the establishment of this Society we hope to bring together (1) the scattered workers of our country and (2) the persons who desire to promote their researches. In union there is strength and through the

medium of a national organization, we may hope to promote geographic research in a manner that could not be accomplished by scattered individuals, or by local societies, we may also hope—through the same agency—to diffuse the results of geographic research over a wider area than would otherwise be possible.”

A MODEST MAGAZINE MAKES ITS DEBUT

A few months later, early in 1889, appeared a slim little scientific brochure—Volume I, No 1, of the NATIONAL GEOGRAPHIC MAGAZINE. Between its paper covers of a terra cotta shade were such articles as these: ‘Geographic Methods in Geologic Investigation,’ ‘The Classification of Geographic Forms by Genesis.’ It was earnest serious, studious thorough, but it bore little relation to the brilliantly illustrated periodical that it would some day be. It did not even undertake to come out at more than ‘irregular intervals.’ On the first two pages was this announcement:

The National Geographic Society has been organized to increase and diffuse geographic knowledge and the publication of a Magazine has been determined upon as one means of accomplishing these purposes.

It will contain memoirs essays notes correspondence reviews etc relating to geographic matters. As it is not intended to be simply the organ of The Society its pages will be open to all persons interested in geography in the hope that it may become a channel of intercommunication stimulate geographic investigation and prove an acceptable medium for the publication of results.

The Magazine is to be edited by The Society. At present it will be issued at irregular intervals but as the sources of information are increased the numbers will appear periodically.

The National Capital seems to be the natural and appropriate place for an association of this character and the aim of the founders has been therefore to form a National rather than a local society.

But there is no limitation to the number of members and it will welcome both leaders and followers in geographic science in order to better accomplish the objects of its organization.

October 1888

After several years of irregular publication the Board decided to issue The Magazine every month beginning January 1 1896 and to make efforts to increase the circulation by placing it on the newsstands. In December 1897 Gardiner Greene Hubbard died and his distinguished son in law Alexander Graham Bell inventor of the telephone accepted the presidency in January 1898.

Meanwhile the plan to popularize The Magazine and increase the subscriptions

had failed. By the end of the year The Society was badly in debt, and the Board much discouraged.

But President Bell was not disheartened. He maintained that geography was a most interesting subject and that the public would support a geographic magazine, provided the matter was presented entertainingly. The first step, he asserted, was to engage and pay a person to devote his entire time to the editorial work and to promote the membership. Heretofore these duties had been performed by a committee of very busy and distinguished men who gave their services without remuneration.

The second step, said Dr Bell was to discontinue efforts to obtain subscribers to a magazine. In place of subscribers an effort should be made to get members of a society who would believe in the project and help it.

At that time The Society had two classes of members: (a) active or local members who lived in the District of Columbia paid \$5, and attended the lectures and received The Magazine, and (b) non resident or corresponding members who paid \$2, and got The Magazine only. Dr Bell advised that the distinction between resident and non resident members be abolished, arguing that people disliked to be classed as non resident or corresponding members because of a prevalent feeling that non resident members had fewer privileges.

At that time, January 1899, of the 1000 members 800 resident in Washington were paying \$5 for The Magazine and lectures and only 200 were paying \$2 and the Board members were reluctant to make the change. But they welcomed the suggestion that an assistant editor be appointed to assist in the preparation of The Magazine and in promoting the membership particularly as Dr Bell offered to pay the salary of the person selected.

THE INVENTOR OF THE TELEPHONE SEEKS AN EDITOR

Dr Bell realized that the desire to add to knowledge is wellnigh universal that hosts of people would like to support exploration and research as rich men have been able to do. Their pride in National Geographic Society membership is partly due to realization of this wish.

The writer has had the privilege of directing its policies since April 1899 when he was invited by Dr Bell then President of the National Geographic Society, to assume



Medal designed by Albert H. Dumstead

TWO FAMOUS FLIGHTS CHARTED IN SOLID GOLD

On the face of the medal (left) is outlined the Lindberghs' circumnavigation of the Atlantic in 1933, during which they flew 29 000 miles over tossing seas, Greenland's ice cap, the European continent, the African coast and the teeming jungles of South America. On the reverse above the inscription is depicted the flight of 1931, across the northern wilds of Canada and Alaska over the Bering Sea and down the Siberian coast to Japan and China.

editorial charge of The Magazine and of the effort to increase membership.

To my father, Dr Edwin A. Grosvenor, professor of European history at Amherst College, author of two magnificently illustrated volumes "Constantinople," etc., and later President of the United Chapters of Phi Beta Kappa, Dr Bell wrote the following letter from Washington, on February 19, 1899:

'MY DEAR PROFESSOR GROSVENOR

"As President of the National Geographic Society I am on the lookout for some young man of ability to act as Assistant Secretary of The Society, and manage under the direction of our Editorial Committee, our monthly publication, 'THE NATIONAL GEOGRAPHIC MAGAZINE.'

"In this connection your two sons recur to my mind. I do not know whether the position contemplated would be in the nature of an advance on the positions they now occupy, or whether it would be consistent with their aims in life—and therefore write confidentially to you before approaching either of them upon the subject. If, as I understand they contemplate ultimately going into law—the opportunities for study here are unrivalled, and the duties of the position

would not be of so exacting a character as to prevent them from pursuing any studies they desire.

"The present Editor of The Magazine, an expert geographer, serves without remuneration, but he finds himself so overburdened with work as statistician to the Agricultural Department that he desires to resign the Editorship. He would remain, however, on the Editorial Committee and give his active assistance to his successor. We are now contemplating the advisability of placing The Magazine in the hands of one only salaried officer, the Assistant Secretary, making him the Managing Editor to get out The Magazine with the assistance of the Editorial Committee.

"I am afraid however, that our present Assistant Secretary would not be competent to conduct The Magazine. He is a married man, and we pay him a salary of \$1,200 a year. I have thought that perhaps for the same salary we could secure an unmarried man of superior ability by applying to the Presidents of our universities. Some bright college graduate just beginning life would probably find in this position a stepping stone to something better, and be able, while here, to pursue some postgraduate course of study while earning his livelihood.

"Under the proposed plan the members of the Editorial Committee would provide the original material for The Magazine—the Managing Editor simply applying to them for materials as needed. The chief duties of the Managing Editor would be the arrangement of the material and the reading of proof—but he must also have sufficient literary ability to be able to write himself in an emergency, and sufficient judgment to use the scissors with discrimination in quoting from our exchanges. Of course in all this he would have the assistance of the experts upon the Editorial Staff who would always be glad to be consulted. Either of your sons would I am sure have sufficient ability for the position but of course I do not know what their present prospects are or whether such an opening would prove attractive to them.

We shall make no change for some months yet and in the meantime no harm can come from consulting you upon the subject.

P S—I forward by this mail a specimen copy of The Magazine.

To my twin brother and me who were teaching in New Jersey Dr. Bell wrote as follows:

MY DEAR FRIENDS Will you kindly look over the enclosed communication to your father and let me know whether either of you would consider the proposition to become Assistant Secretary of the National Geographic Society and Managing Editor of The Magazine if such a proposition should be made to you.



Photograph by Keystone Underwood

IN RECOGNITION OF YOUR COURAGEOUS AND SKILLFUL WORK.

Anne Morrow Lindbergh receives from President Gilbert Grosvenor the Hubbard Gold Medal, highest honor of the National Geographic Society. She is the first woman to be awarded the medal. Nine men including Colonel Lindbergh have received it for extraordinary geographic achievements since it was first struck in 1906 for Admiral Robert E. Peary. In the background is the historic flag which has been carried on numerous expeditions sent by The Society to far places of the world. Its colors are green, brown and blue representing the sea, the earth and the sky.

I have already spoken of the poverty stricken state of The Society when I first visited its cramped and littered headquarters. The Society was not so poor as it seemed, however, for its management had a revolutionary idea.

Why not popularize the science of geography and take it into the homes of the people? Why not transform The Society's Magazine from one of cold geographic fact expressed in hieroglyphic terms which the layman could not understand into a vehicle for carrying the living, breathing human interest truth about this great world.



PRESIDENT COOLIDGE PRESENTS THE HUBBARD MEDAL TO
COLONEL LINDBERGH

The presentation of the National Geographic Society's highest award was made in the Auditorium of the National Geographic Society, Washington, D. C., to Paris, May 1927. (The National Geographic Magazine for August 1927)

of ours to the people? Would not that be the greatest agency of all for the diffusion of geographical knowledge?

ing to help and give liberally of time and suggestion. To evolve a magazine that would not lower the dignity of The Society and that would win popular support was the task that was entrusted to me.

Dr. Bell personally for five years contributed my salary as Assistant Editor and

I did, making a total gift of \$6,900 to The Society for this purpose.

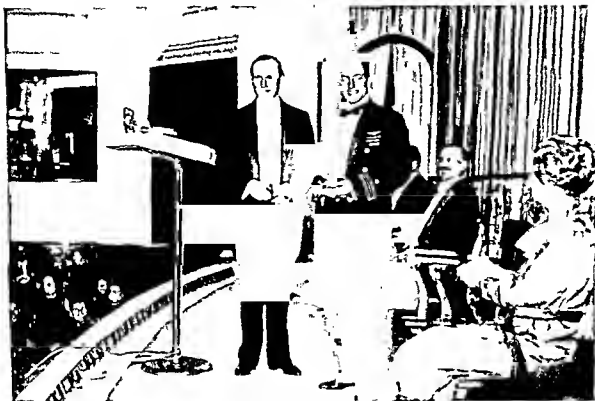
The Society was so poor that it could employ no clerical assistance, and for a time I was even obliged to address The Magazine envelopes myself. The names of the members were then printed on long slips, and it was the practice to cut these slips up with a pair of scissors and then paste them on the envelope. After addressing one edition of 900 copies in this way, my first investment in office furniture was the purchase of an addressing machine for \$20.

Magazine men who were consulted said it was impossible to develop a circulation for a geographic magazine, because the subject of geography was too technical. And no doubt this was true, for we should remember that at that time geography was to the layman an unknown quantity, and meant boundaries, moraines, erosion, glaciers, wind belts, etc.

From the very inception of our revolutionary plan a new era in

geographic education dawned. The National Geographic Society found the whole world ready to grasp the message of the Magazine. We searched for those pages brought them. From that day to this there has been growth, growth, growth.

Near the end of my first month with The Society, I received under date of April 29, 1899, the following letter from Dr. Bell:



International Newsreel

PRESIDENT COOLIDGE PRESENTS COMMANDER BYRD WITH THE HUBBARD GOLD MEDAL

This medal was awarded to Commander Richard Evelyn Byrd first man to fly to the North Pole before a distinguished audience of members and friends of the National Geographic Society on June 23, 1926 (see Commander Byrd Receives the Hubbard Gold Medal in the NATIONAL GEOGRAPHIC MAGAZINE for September 1926)

'DEAR MR GROSVENOR

"At the request of the Editorial Committee I wrote to you on March 20, 1899, offering you the position of Assistant Editor of the NATIONAL GEOGRAPHIC MAGAZINE for three months, beginning April 1st stating that a more permanent engagement would be made at the end of that time if the appointment seemed satisfactory to the Committee and to you. I am happy to inform you that the Editorial Committee have been so much pleased with you and appreciate so highly the benefits already derived from your assistance that they consider it unnecessary to wait for the expiration of the three months before making a more permanent engagement with you. Mr Hyde on behalf of the Editorial Committee brought the subject before the full Board of Managers at the meeting today and you may be pleased to know that the suggestion of the Editorial Committee met with the unanimous endorsement of the Board and I now have great pleasure in confirming your appointment

as Assistant Editor of The Magazine, for one year, instead of three months, dating from the first of April 1899, your salary to be one hundred dollars per month.

'I trust that you will accept and that you have as high an opinion of the members of the Board as they have of you.

"I have written to Mr Hyde suggesting that your name should appear in the June issue of The Magazine as Assistant Editor under his

"Congratulating you upon the good beginning you have made, and wishing you every success in the future. I am

Yours truly,

(Signed) ALEXANDER GRAHAM BELL,
President, National Geographic Society.

On the next day I received from Dr Bell's private secretary a note which said

'On leaving Mr Bell asked me to say to you that the Editorial Committee passed a resolution giving you great scope in the matter of securing Corresponding Members and pushing The Magazine—therefore go ahead and do what you think best in that



Photograph by Dr. G. Bert Grosvenor

GENERAL SHERMAN, KING OF ALL FREEDOM, RULES SEQUOIA NATIONAL PARK

It takes 20 men with arms outstretched to encircle this giant tree. Dr. A. E. Douglass estimated



Photograph from Willis T. Lee

THE ARMORY AND SHINAV'S WAR CLUB IN CARLSBAD CAVERN, NEW MEXICO

This vast subterranean chamber is one of the most spectacular underground wonders in America. Long known locally, it was first disclosed to the public through the pages of the NATIONAL GEOGRAPHIC MAGAZINE (A Visit to Carlsbad Cavern, January 1924, and New Discoveries in Carlsbad Cavern, September 1925). The Society sent an expedition to explore the cavern and the mountains near it. As a result of these explorations, which discovered the vast extent and spectacular nature of the cave, President Coolidge set it aside as a national monument. Dr. Willis T. Lee, leader of the expedition, is seated at the right in the picture.



THE FIRST PHOTOGRAPH EVER MADE SHOWING LATERALLY THE CURVATURE OF THE EARTH

This unusually interesting photograph of the Andes, including Mount Aconcagua (identified by a white line below the base) at a distance of 287 miles was made from an airplane at an elevation of 21,000 feet by Captain Stevens in the course of his camera survey of the Andean Chain for the National Geographic Society in 1930. The mountain range which shows clearly in the photograph could not be seen by the photographer at the time he made this picture (see Flying the Hump of the Andes by Captain Albert W. Stevens in the NATIONAL GEOGRAPHIC MAGAZINE for May, 1931). Captain Stevens used a lens of 9-inch focus and an infra-red screen which admits to the sensitive photographic plate light that is invisible to the eye. The length of the exposure was 1/20th of a second. Almost exactly in the center of the range Mount Tupungato is distinguished. In the foreground is Villa Mercedes, Argentina.

Photograph by Capt. A. W. Stevens



THE CARAVAN OF DR JOSEPH F ROCK ESCORTED BY NATIVE SOLDIERS PAUSES ON THE PLAIN OF GABA ON HIS RETURN FROM THE
KONKALING PEAKS OF WILD WESTERN CHINA
The graph by Dr Joseph F Rock

This explorer has led a series of expeditions of the National Geographic Society to little known regions of China and Tibet. From Burma he brought back seeds of the chaulmoogra tree whose fruit yields an oil which has proved of value in the treatment of leprosy. His splendid black and white photographs and natural color pictures of and articles on the Yangtze Gorge, the Devil Dancers and Butter Gods of Choni and the King Sungmas of Tibet have appeared from time to time in the NATIONAL GEOGRAPHIC MAGAZINE.

direction, and if any question arises regarding expense in getting out circulars etc remember you have Mr Bell behind you. The point is to materially increase the corresponding membership."

I quote this message from Dr Bell offering financial assistance to The Society, because it was so characteristic of his generous nature. He was ready to donate thousands of dollars to help. But I begged him not to give a single dollar beyond the \$100 donated monthly to The Society for my salary.

My theory was that if The Society's Magazine was to succeed, we must find out what kind of geographic magazine the public would buy, and that we could not ascertain this if we were to lean on a generous benefactor to pay deficits. Dr Bell assented with a smile, and later told me that several years previously, he and Mr Hubbard had expended \$80,000 in a futile effort to establish a popular scientific weekly periodical. After two years of printing they discontinued it and sold the name Science, which they had bought for \$5,000 to Dr J. McKean Cattell for \$25.

I have the receipt for the \$5,000 payment. Dr Bell gave it to me as a souvenir.

That those early years were times of uphill struggle, hard work, and vexing problems is suggested by other letters.

For example, in October 'the imperative necessity of providing the Secretary's office with further clerical assistance' was urged upon the board by the Editor in Chief, Mr John Hyde, who added:

While The Magazine itself has not suffered in the form in which it is presented to the members of The Society and to the public its preparation has involved upon Mr Grosvenor a strain that nothing but the most intelligent enthusiasm would have enabled him to bear. His untiring energy and single minded devotion to the work of The Society in general and of The Magazine in particular are worthy of the highest praise.

"Perhaps I ought to add that I make these strong representations as the chairman of the Committees on Admissions and Publications, as a frequent visitor at The Society's rooms, and without Mr Grosvenor's knowledge that gentleman being ready to work himself to death if need be in the interests of The Society and in the carrying out of the orders of the Board and of its various Committees.

Every dollar was carefully husbanded and stretched like a stratosphere balloon. We had one inflexible rule: there must be no deficit at the end of the year, and no borrowing.

Now The Magazine pays handsome honorariums for all material used, but in those days articles were solicited gratis.

We had some amusing experiences. In the expectation of interesting the schools, we accepted with great enthusiasm the offer of the professor of geography in one of our oldest universities to write and donate to The Magazine a series of articles for teachers. The first paper soon arrived. I found it exceedingly hard to digest, and took it to Dr Bell. He confessed that much of it was beyond him too, but as it was sponsored by America's most widely acclaimed geography teacher, he recommended publication.

Soon letters of protest from educators deluged us; among them a letter from G. Stanley Hall, President of Clarke University, one of the most ardent supporters of our project, who swore that if that article was to be the kind of geography we published we had better discontinue our efforts. From that day no sentence has found space in The Magazine that could not be readily understood.

MEMBERS OF A SOCIETY NOT SUBSCRIBERS SOUGHT

After Alexander Graham Bell had sailed for Europe in June 1900 several members of the Board who had little confidence in Mr Bell's plans began negotiations with a New York publisher with a view to turning The Magazine over to them. To explain Mr Bell's plans and to discourage the negotiations I wrote Miss Ida M. Tarbell, a good friend, the following letter on July 25, 1900, which I quote in part as it answers the question frequently put to us: why members instead of subscribers are sought.

DEAR MISS TARBELL,

As you are aware during the past 16 months Mr Bell and others have been pushing The Magazine and planning to make it cover a field in which there is no competitor to make it The Geographic Magazine of the country reliable and widely read. But The Magazine is to be the means to another end which Mr Bell has heretofore and does now I believe consider the most important. By it we

are to build up a great national society with thousands of members. What we want is not subscribers to a magazine but members of a society.

A combination of membership and magazine will be a stronger attraction than a mere subscription to a magazine. Where many persons would not subscribe for the magazine alone, they will become members because they get two things: the distinction of membership in a well-known society and also a good monthly journal. Vice versa they would not become members except for the additional privilege of a magazine.

Neither The Magazine nor The Society can stand alone, for each helps the other.

In the fall the Hubbard and Bell families are going to put up a memorial building to Mr. Hubbard. It is to be offered to The Society exclusively for its headquarters. It is another step in this same direction to make The Society national and not a Washington scientific body. It has to become more popular, and hence The Magazine also must become less technical and appeal to teachers, scholars, thinking men and not to specialists alone. The Magazine exists not for itself like your *Popular Science Monthly*, but is the means the tool by which we plan to build a society having thousands and thousands of members and as few subscribers as possible or if we do get subscribers to make them members as soon as possible. I hope my idea is clear: a great society and a great magazine is what we want and not a great magazine and a small society.

The more I think about it the more convinced I am that if the plans offered you as far as I can gather them from Mr. X are pursued the results will be a technical and local society and a good magazine but not a great society and a great magazine. The barring from The Magazine of all reference to The Society which is contemplated is destructive. The Magazine is the journal of The Society and publishes its proceedings not often to be sure but it allows 15 to 20 pages a year for the purpose. If The Magazine does not have any reference to The Society members will drop off and there you are again getting subscribers and not members. This is just what Mr. Bell and the majority do not want though certain members with

whom you have been thus far corresponding want it, and are working for it. They are in the minority however, or will be. It happens that they are in the field now. I write frankly you see for I want you to know the object of all. A great national society first and all the time. The Magazine is to bring this about and not thwart it. For the present, please consider this letter confidential.

DR. BELL HAILS UNPRECEDENTED GROWTH

It should be observed parenthetically that magazine men generally advised against any mention of the National Geographic Society in The Magazine as they thought the public would not be interested in The Society, that mention of The Society would frighten away readers and subscribers. The original conception of The Society and The Magazine prevailed however, and by 1912 Dr. Bell was able to address The Society in these words:

There has never been in the history of the world a scientific society that has increased in influence and power as the National Geographic Society.

In the year 1888 he continued: The Society was organized under a national charter to promote the increase and diffusion of geographic knowledge. Just think what that means! *To promote the study of the world upon which we live.* A truly great object for a little feeble organization to undertake. At that time we had only about 200 members.

The Society had no endowment nothing coming to it but the membership fees. No millionaire has since come forward to help us out and yet today The Society has a great endowment raised by its own efforts—a surplus to be devoted to the promotion of geographic science. We never had to take off our hats to any multimillionaire for having endowed The Society with a million dollars we have done it ourselves.

When I look back upon our early days what a different condition of things prevailed. We had only about a thousand members and The Society was living from hand to mouth. Like many other scientific societies we constituted a strictly technical organization.

We supported the NATIONAL GEOGRAPHIC MAGAZINE at that time a valuable

* See NATIONAL GEOGRAPHIC MAGAZINE, March 1912, pp. 272-276.



HEADQUARTERS OF ONE OF THE SOCIETY'S SEVEN MOUNT KATMA EXPEDITIONS, IN THE VALLEY OF TEN THOUSAND SMOKE

This is Baked Mountain Camp with Mount Marlin in the background. Before the eruption this was a green valley. Many travelers have camped beside a clump of bushes that formerly stood near the mill of this picture, but at an elevation much lower than the present surface for the valley was here filled many feet deep by the flow of incandescent sand.



American Southwest. The colossal communal dwelling was under construction 919 A. D. and the settlement had reached its heyday in 1067. The Pueblo Bonito remains in the

expeditions and another series not only discovered the date of this prehistoric apartment-house metropolis of the aboriginal Southwest, but also developed a tree-ring calendar which dated more than 40 other major pueblo dwellings (see "Everyday Life in Pueblo Bonito," by Neil M. Judd, in the NATIONAL GEOGRAPHIC MAGAZINE for September, 1925, and "The Secret of the Southwest Solved by Talkative Tree Rings," by Andrew Ellcott Douglass, December, 1929).

technical journal that every one put upon his library shelf and few people read. It was valuable, it was important, but it did not contribute anything to the financial support of The Society.

In spite of the fact that the members of the Board of Managers and all the officers of The Society including the Editor of The Magazine served without pay, and in spite of the fact that our lecturers as a rule cost us nothing excepting an occasional honorarium to cover traveling expenses, our income being derived exclusively from membership fees was hardly sufficient to pay the printer's bill for The Magazine, the rent of our lecture hall, and the ordinary running expenses of The Society. Deficits were by no means unknown.

We had no permanent home. Half an office room constituted our headquarters and in shifting from one building to another as happened more than once a feeling of unpermanency ensued and valuable material was in danger of loss.

Then the use of the Hubbard Memorial Building was offered to us in memory of our first president—Gardiner Greene Hubbard—and for the first time we possessed a permanent habitation that in its beauty spoke of the position to which we aspired. But it threatened to be a white elephant for we did not even have the means to provide for its lighting or to take proper care of it.

It became a matter of vital necessity for The Society to increase its membership. Necessity spurred the Board of Managers into activity and they adopted a new policy unique so far as I know in the history of science. I do not know of any other scientific society that has ever adopted it and I do not know of any other society that has succeeded as the National Geographic Society has done. Now how was this accomplished?

First of all instead of limiting our membership to strict geographers we threw open the doors of membership to all who desired to promote the increase and diffusion of geographic knowledge. We had a membership of one thousand in the District of Columbia, we had ninety millions of people outside the District of Columbia to whom we could appeal for an increase in our membership, but all we had to reach these outside members was our Magazine. Our Washington members enjoyed the course of

lectures, but the outside members would have nothing but a magazine to hold them to The Society. The question was: How could we hope to interest thousands and thousands of people in a strictly technical geographic magazine?

It was obviously necessary to change the character of The Magazine and to adapt it to interest a larger circle of non-technical members. We adopted this policy with an aim to making The Magazine support The Society. We did not mean to lower the scientific standard of The Magazine and make it simply popular, but we wanted to add certain features that would be of interest to everybody.

But in starting out to make a magazine that would support The Society instead of The Society being burdened with The Magazine a man was of the first necessity if we did not get the right man the whole plan would be a failure and I can well remember how our Board of Managers discussed this proposed plan and the difficulty of getting a man and how the idea was laughed at that we should ever reach a membership of 10,000. Why it was ridiculous. Geography, the driest subject of all in our schools, how could you expect a membership of 10,000 in the United States alone!

As I said in the beginning we found it necessary to get the proper man but fortunately we found him. A young man who had made a very brilliant record at Amherst College was engaged as Assistant Editor of The Magazine to stir up these new ideas and to put new life into the scientific journal. But The Society did not have the money to pay his salary that had to be raised by voluntary contributions from interested members. And so Mr. Gilbert H. Grosvenor commenced his work in 1899. He speedily captured The Society—and incidentally he captured one of my daughters.

Mr. Grosvenor in 1900 became Editor and in 1903 Director of the work of The Society. We have been very fortunate in securing his services and with the intelligent action of an unusually fine Board of Managers and the cordial support of the members of The Society the success of The Society has been secured. We have increased to 107,000 members and we are still on the upgrade. There is no reason to suppose that we are going to stop growing.

"Our Magazine has become the greatest educational journal of the world. It goes to thousands of schools. There is no reason why the circulation should not increase, and there is no reason why the National Geographic Society should not be placed in possession of an endowment fund for geographic research, of its own making, many times that which it now possesses."

THE GUIDING PRINCIPLES

It might be well to repeat here some of the principles which were gradually evolved and followed in the development of The Magazine.

"1 The first principle is absolute accuracy. Nothing must be printed which is not strictly according to fact. The Magazine can point to many years in which not a single article has appeared which was not absolutely accurate.

"2 Abundance of beautiful, instructive, and artistic illustrations.

"3 Everything printed in The Magazine must have permanent value, and be so planned that each Magazine will be as valuable and pertinent one year or five or ten years after publication as it is on the day of publication. The result of this principle is that tens of thousands of back numbers of The Magazine are continually used in school rooms.

"4 All personalities and notes of a trivial character are avoided.

"5 Nothing of a partisan or controversial character is printed.

"6 Only what is of a kindly nature is printed about any country or people, every thing unpleasant or unduly critical being avoided.

"7 The content of each number is planned with a view of being timely. When ever any part of the world becomes prominent in public interest, by reason of war, earthquake, volcanic eruption etc., the members of the National Geographic Society have come to know that in the next issue of their Magazine they will obtain the latest geographic, historical, and economic information about that region, presented in an interesting and absolutely non-partisan manner, and accompanied by photographs which in number and excellence can be equalled by no other publication."

In the very first volume of THE GEOGRAPHIC, in 1889, appeared an article by a 33 year-old naval engineer, R. E. Peary, who was destined to carry the flag of his country to that desolate waste of shifting ice and water at the top of the world which men call the North Pole. But the scene of the exploration trip which Peary described in that early GEOGRAPHIC was almost as far away from the Poles as it is possible to get. Through tropic jungles he was making his way then. "Across Nicaragua with Transit and Machete" was the title of his story.

PEARY THE INDOMITABLE

Again and again in these pages the dauntless Peary reappears. When many persons were shaking their heads and asserting that mortal man could never reach the Pole, Peary said in an address to the National Geographic Society on November 29, 1902:

"It may seem to indicate over confidence to state boldly that the Pole can be reached, and yet it is a fact, even though the struggle has been going on unsuccessfully for years and years. Each time we have come a little nearer, each time we have learned a little more, and I say to you here tonight that it is not an impossibility, that it can be done, and that it is no more difficult than many of the great projects that we see being pushed to completion every day, and which

placable war upon the pitiless forces of the Arctic and he planned his campaigns like a Napoleon. Lightly loaded sledges, swift dogs, hardy Eskimos, a far north base, living off the land—these were elements in his plans.

On December 15, 1906, at a meeting of the National Geographic Society, its Hubbard Medal was presented to Peary by the President of the United States, Theodore Roosevelt, in honor of his attainment of "Farthest North" at 87° 06'.

A year later, at another meeting of The Society the Hubbard Medal was presented by the Vice President of the United States, Charles W. Fairbanks, to Captain Roald Amundsen of Norway for his achievement of the Northwest Passage in a vessel and the definite location of the magnetic North Pole.

* See NATIONAL GEOGRAPHIC MAGAZINE March 1915 pp. 318-320.

It is significant that both of these awards came *before* these heroic explorers had achieved the goals of their lives—the North Pole for Peary, the South Pole for Amundsen. Later The Society awarded to both of them special gold medals for those crowning achievements, but who can say that the recognition of the earlier feats did not hearten and encourage them in the masterly campaigns that finally conquered the Poles?

Years afterward at a banquet of The Society in 1913, these two conquerors of the ends of the earth met for the first time face to face.

Peary, to whose exploration The Society contributed a substantial sum, was one of the first to foresee the present era of aerial exploration in which Admiral Byrd also with The Society's aid, has succeeded in flying over both Poles. In his last public appearance, as recorded in THE GEOGRAPHIC for April 1920, Peary said at a meeting of The Society:

Coming Polar explorers both north and south are quite likely to use modern means which have sprung into existence within the last few years according to my own personal impressions aerial flights.

In these early GEOGRAPHICS there stand out clearly too the genius and the vision of Alexander Graham Bell. In the June 1903 issue featuring numerous photographs of his experimental kites he wrote:

I have been continuously at work upon experiments relating to kites. Why, I do not know excepting perhaps because of the intimate connection of the subject with the flying machine problem.

We are all of us interested in aerial locomotion and I am sure that no one who has observed with attention the flight of birds can doubt for one moment the possibility of aerial flight by bodies specifically heavier than the air. In the words of an old writer: We cannot consider as impossible that which has already been accomplished.

A few years later in 1914 we find him not only predicting that man would fly from America to Europe but asserting that by flying high and taking advantage of eastward winds it might be done between an early breakfast and a late dinner. In this the eyes of genius seem to have seen even beyond the stirring realities of our own present day.

Calculation shows that our best machines should be able to cross the Atlantic

in 13 hours, said Dr. Bell. I hardly dare to say it aloud for publication. It is sufficiently startling to know that it is not only possible but probable, that the passage may be made in a single day. But if, as I imagine, it can be done in 13 hours you may take an early breakfast in Newfoundland and a late dinner in Ireland the same night.

Charles Augustus Lindbergh was a twelve year old schoolboy in Little Falls, Minnesota, when the bearded, kindly Dr. Bell in this address printed in full in THE GEOGRAPHIC was telling the graduating class of the Friends School in Washington that a flight to Europe in a single day was not only possible but probable and was opening their eyes to other challenging developments of the future.

'Did you ever put your head under water and chuck two stones together to see what the sound is like?' he asked the boys.

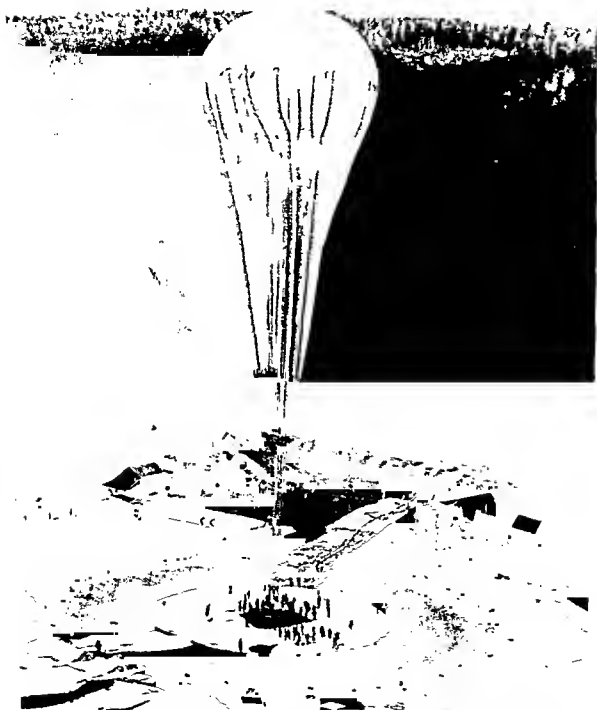
'Three-quarters of the earth's surface is under water and has not yet been explored at least to any great degree.'

Why should we not send down a sound instead (of a sounding line) and listen for an echo from the bottom? Knowing the velocity of sound in water and the time taken for the echo to reach the ear we should be able to ascertain the depth of the deepest part of the ocean in less than four seconds instead of more than four hours. Here is something worth doing. It has never been tried. I have suggested it a number of times.

Today the floor of the ocean is being systematically mapped and drowned mountain peaks and valleys discovered by just such a sonic sounder. Huge liners from Europe nearing North America spot their position in heavy fog by feeling out familiar landmarks—hills and canyons on the floor of the sea—with the formless fingers of sound and echo.

In these old GEOGRAPHICS are reflected the expanding horizons and broadening interests, the new inventions and technical progress which marked the merging of the nineties into the twentieth century.

The modern arts of photography and photo-engraving were just beginning in 1899 and The Magazine began to employ them on a hitherto unheard-of scale. In 1901 it noticeably increased in stature with larger pages and two columns of type as at present instead of a single wide column. In 1902 appeared an article by Sir Henry M. Stanley on 'A Great African Lake'—Vic



Photograph by Richard H. Stewart

THE EXPLORER I POISED FOR ITS CLIMB INTO THE SKIES

At dawn on July 28, 1901, the gondola had been fastened to its supporting ropes and the balloon was about ready to take from the upper catenary. When the signal was given, these ropes were cut diagonally downward and the balloon floated upward after this photograph was taken, leaving the weight of the gondola and a few hand-

toria. One of the highlights of 1903 was Dr Bell's paper on 'The Tetrahedral Principle in Kite Structure,' indicative of The Society's deep interest in aviation, which it has encouraged from the days of kites and crude "aerodromes" to the present era of aerial exploration and penetration of the stratosphere by giant balloons.

A HANDSOME NEW HOME GIVEN THE SOCIETY

In September, 1903, The Society moved from rented quarters into a handsome new structure, Hubbard Memorial Hall, presented to it by the Hubbard and Bell families. Deposited in the cornerstone was this document, written by Dr Bell:

'This building is erected in memory of Gardiner Greene Hubbard by his children, Gertrude, Mabel, Roberta, and Grace. Gertrude, being no longer living, is represented by her only child, Gertrude, daughter of the late Maurice Neville Grossmann, and Roberta, being no longer living, is represented by her surviving children, Helen and Grace, daughters of Charles James Bell.

'The library is the gift of Mrs Gardiner Greene Hubbard, who joins her children in establishing this memorial to her husband.

'The building is designed to be the home and headquarters of the National Geographic Society, of which Mr Hubbard was President from the date of its organization, January 20, 1888 to the day of his death, December 11, 1897.

'The box containing this document and other papers and coins will now be sealed and deposited in the cornerstone of the Hubbard Memorial Building in the presence of Mrs Gardiner Greene Hubbard and all the surviving descendants of Mr Hubbard, together with a few personal friends.

'The cornerstone will be laid by Melville Bell Grosvenor, the infant great grandson of Gardiner Greene Hubbard, in the arms of Mrs Hubbard.

'Witness our signatures this 26th day of April, 1902.

GERTRUDE M HUBBARD (MRS GARDINER GREENE HUBBARD)

Children

MABEL GARDINER BELL AND HER HUSBAND ALEXANDER GRAHAM BELL
GRACE HUBBARD BELL AND HER HUSBAND CHARLES J BELL

Grandchildren

GERTRUDE HUBBARD GROSSMANN
ELSIE MAY BELL GROSVENOR AND HER HUSBAND, GILBERT H GROSVENOR
MARION H GRAHAM BELL
HELEN A BELL
GRACE HUBBARD BELL
GARDINER HUBBARD BELL
BOBBY BELL

Great Grandchild

MELVILLE BELL GROSVENOR (N) His Mark

Believing that The Society was now surely set on the path to success, Dr Bell asked in October, 1903, to be relieved of the presidency. But he continued an active and most inspiring member of the Board of Trustees and a constant contributor of articles and suggestions to The Magazine until his death in August, 1922.

Charles James Bell, whose wife and daughters contributed one-half of the cost of Hubbard Hall, was the first cousin and brother in law of Alexander Graham Bell. He was the first Treasurer, 1888-1890, and Chairman of the Finance Committee of The Society from 1900 until his death in 1929. Ever ready with wise counsel he was a staunch friend.

In 1905 two happy events took place. First, I was able to offer the following resolution to the Board, to which I had been elected in January:

'Resolved: That the National Geographic Society, through its Board of Managers, thank Dr Bell for his generous subscription to the work of The Society from 1899 to 1904 and inform Dr Bell that The Society is now on such a substantial basis that it can relieve him of his subscription for 1905.'

Thus Dr Bell was relieved of his generous donation of \$100 per month which he had made for my salary from April 1, 1899. His total gift for this purpose was \$6,900.

Second, in my search for an associate to help me carry forward the promising future, I was fortunate to discover John Oliver La Gorce, since 1920 the Vice President of The Society. I recommended his appointment to the Board as Assistant Secretary and on September 19, 1905, he was engaged at \$60 per month and he commenced work on September 22, which was his 25th birthday. Of his brilliant part in the building of The Society I speak on page 10.

The Magazine's development went forward apace. Peary on the North Pole. Taft on the Philippines. Gifford Pinchot on

conserving our forests—these mark some of the issues of thirty years ago

Taft was to write many more articles for The Magazine, to accept membership on The Society's Board of Trustees in 1918, and to continue an active and constant attendant at its meetings until his death in 1930

"PERDICARIS ALIVE OR RAISULI DEAD"

When a Moroccan chieftain kidnaped an American engineer and the United States Government dispatched its famous ultimatum, "Perdicaris alive or Raisuli dead," THE GEOGRAPHIC was on the job, and in 1906 published the complete story by the kidnaped man, Ion Perdicaris. Members who perhaps had pictured Raisuli as a crude bloodthirsty ruffian learned that he was gracious and dignified a man of fine presence and as humorous and quick at repartee as though he had been born in County Galway.

'He could not bear to hear a child cry,' wrote Perdicaris "while on several occasions I noticed his care to avoid allowing the bees collected on his cup to drown as I saw him lift them out with his spoon or finally empty the cup itself on the grass."

In this same year 1906, appeared the first of Mr Shiras' remarkable flashlight photographs of wild game and in 1907 THE GEOGRAPHIC published among other articles Dr Bell's famous paper on "Aerial Locomotion." An "Awakened Continent to the South of Us" by Flihu Root the Secretary of State and "Our Heralds of Storm and Flood." The pictures were improving and the articles too.



Photograph by John Tee-Van

COMING HOME OF THE LOWER DEPTHS.

Dr. William Beebe (right) and Otis Barton are back on deck after their world's record dive of 3,028 feet off Bermuda. The United States and the National Geographic Society flags, carried down on man's deepest plunge, are attached to the cable as they were during the descent (see "A Half Mile Down" by Dr. William Beebe in the NATIONAL GEOGRAPHIC MAGAZINE for December 1934).

Some of the diverse elements that the American melting pot has fused into one people were shown in a series of photographs of immigrants landing at New York. Still wearing their picturesque native costumes, the dress of field or fen or forest, they look surprised and mystified at the wonder that was New York even then. There are Russian Cossacks with knives in their belts, Romanian shepherds in white peasant garb, a German family of one daughter and seven sons, a Scottish family of seven daughters and four sons. Here is America in the making and out through the country today are hundreds of their descendants.

In December, 1907, another young man George W. Hutchison age 21 joined the staff. Indefatigable, unselfish and intelligent, he gained promotion to Associate Secretary, Acting Secretary, Secretary and member of the Board of Trustees (see also page 11).

One of the highlights of 1909 was the publication of *The Panama Canal* by Lieut. Col. George W. Goethals, builder of the mighty ditch which altered geography, dividing the land and uniting the world.

Because of The Society's extraordinary growth, it was announced in *The Magazine* for May 1909, that the unimproved property on Sixteenth Street adjoining Hubbard Memorial Hall had been purchased for \$11,000 to make room for expansion.

Publishing side by side the first reports by Commander Robert E. Peary and Dr. Frederick A. Cook, both claiming discovery of the North Pole. The Society stated: Before the National Geographic Society can however accept the conclusions of either Commander Peary or Dr. Cook that the North Pole has been attained, it will be necessary that the scientific records and data of each explorer be carefully examined by its Committee on Research or by some body or commission acceptable to the Board. Peary submitted his records. They were examined by a Committee of the Board comprising Henry Gannett, Chief Geographer of the United States Geological Survey; O. H. Tittmann, Superintendent of the United States Coast and Geodetic Survey; and Rear Admiral Colby M. Chester, former Superintendent of the United States Naval Observatory.

On their recommendation, a special gold medal was awarded to Commander Peary for discovering the Pole on April 6, 1909. The National Geographic Society's championship of this noble American naval officer, who was treated as shamefully as Columbus, will always be a glorious chapter in the history of our Society. Consult the many references to Peary in this index.

FIRST COLOR SERIES IN 1910

Important indeed in the history of the NATIONAL GEOGRAPHIC was November 1910, for in that number appeared *The Magazine's* first series of illustrations in color, incidentally the largest collection of photographs in color which had ever been

published in a single issue of any magazine.

Scenes in Korea and China, the 24-page series, was called. Reproducing them cost several times as much as an ordinary issue, but had been made possible by expanding membership and advertising receipts.

Varied and highly interesting had become the contents of THE GEOGRAPHIC now. The house fly and charging rhinos, fishes that carry lanterns, Labrador and Libana Mexican volcanoes and Holland cheese—all these and many more subjects found a place between its yellow covers in this eventful year.

Taming the Wild Blueberry and *The Wild Blueberry Tamed* by Frederick V. Coville gave the first popular accounts of life-long researches by the author that have created a new industry.

Leafing through these volumes toward the present, it grows harder and harder to turn the pages rapidly; the pictures and articles are too arresting. *Wild Man and Wild Beast in Africa* by Theodore Roosevelt, Honorary Member of the National Geographic Society; *Reptiles of All Lands* by Raymond L. Ditmars; *Notes About Ants and Their Resemblance to Man* by Dr. William Morton Wheeler.

The Grandest and Most Mighty Terrestrial Phenomenon, The Gulf Stream by John Elliott Pillsbury, U. S. Navy; *Carl Akeley writes on elephant hunting with rifle and camera*; *James Bryce joins the list of GEOGRAPHIC authors*.

FIFTY COMMON BIRDS IN COLOR

June 1913 was a notable number. In it were published in full color the portraits of fifty common birds from paintings by Louis Agassiz Fuertes. The series forerunner of many bird paintings to be published in THE GEOGRAPHIC was made possible by a marked increase in The Magazine's circulation. In 1913 The Society was able to erect a new building to house its expanding activities.

Events now were moving toward the fateful year of 1914, and in the August Magazine, the very month in which the conflagration began, THE GEOGRAPHIC issued as a supplement a large Map of Europe in colors, including the new Balkan States. In explanation, I should state that the previous summer, 1913, I was caught in a war scare in Europe and for several days was unable

to get money from the French bank. Every one on the Continent was so certain of an impending war that on my return to Washington I arranged to have a European map prepared, engraved, printed, and stored in The Society's cellar until the outbreak of hostilities. For eight months we held 300,000 copies of this map, awaiting the inevitable conflict.

"The eyes of the civilized world are now focused upon Europe and the stupendous war there beginning," said a brief article announcing issuance of the map. "The map will prove of much value to the members of The Society who wish to follow the series of military campaigns that it is feared will be without parallel in history." Accompanying tables gave the size of the armies and navies of Europe. This was followed in succeeding months with articles on each of the embattled powers.

When The Society's membership passed the half million mark, the Board of Trustees presented to the Editor the following certificate, which was written by Gen. John M. Wilson, previously Chief of Engineers of the U. S. Army:

"Resolved, That the thanks of the Board of Managers of the National Geographic Society are hereby tendered to Gilbert H. Grosvenor, Director and Editor of the Society, for the superb work he has accomplished within the past eighteen years in bringing our Magazine to the present prominent position it holds among the publications of the Nation and in raising the number of our members from about one thousand to nearly six hundred thousand.

Honorable in every sense, highly accomplished, true in every relation of life, Mr. Grosvenor is admired by us, not only for his literary ability, industry and skill as an editor, but for all his attributes of a true gentleman and scholar.

We wish for him long life, health, happiness and prosperity, and that Heaven's choicest blessings may be showered upon him and the loved ones of his family.

Resolved, That the foregoing resolutions be handsomely engrossed and framed signed by the members of the Board of Managers of the National Geographic Society and presented to Mr. Grosvenor with sincere regards of the members of our board.

John M. Wilson, Brigadier General U. S. A.
E. Pillsbury, Rear Admiral U. S. N. C. M.

Chester Rear Admiral U. S. N., T. L. Macdonald, A. W. Greely, Major General U. S. A. Henry F. Blount, Alexander Graham Bell, Jno. Joy Edson, Frederick V. Coville, Geo. Otis Smith, George R. Putnam, Charles J. Bell, James H. Gore, George Shuras, 3d, Franklin K. Lane, Henry White, S. N. D. North, Rudolph Kauffmann, C. Hart Merriam, David Fairchild, Grant Squires, D. P. Austin, Secretary, O. H. Tittmann, President Washington, January 17, 1917.

WAR UNROLLED MAP OF WORLD

"The Civil War," wrote Emerson, "unrolled the map of our Union and hung it in every man's house."

So it was again in the World War, on a bigger scale. To show its members where in Europe mighty armies were locked in conflict, The Society in 1918 issued its famous Map of the Western Front, which came instantly into demand all over the world.

No hasty summary can do justice to the activity of THE GEOGRAPHIC in those war years. One must glance through the issues themselves to appreciate it. In them stir the tenseness, excitement, and patriotism of history's most awful war, a war in which millions of Americans found a new and very personal interest in the lands across the seas and in such prosaic but vital things as how the world is fed and where it gets its steel and coal.

THE GEOGRAPHIC's first Flag Number, in October, 1917, received the praise of President Woodrow Wilson, and the second Flag Number, in September, 1934, with its reproduction of 808 of the world's flags and emblems, was an even greater publication achievement, forming the most comprehensive picture gallery of flags ever published in full color.

An article on 'Our State Flowers,' with paintings by Mary E. Eaton, was printed in 1917 with the result that nearly a score of States have since adopted State flowers by legislative action.

Immediately after the war, in May, 1919, THE GEOGRAPHIC's important series of articles on the States of the Union was launched with Dr. La Gorce's story on The Industrial Titan of America—Pennsylvania.

One of the most popular of all the GEOGRAPHICS was the March 1919, number, devoted entirely to the dog "mankind's best friend" and splendidly illustrated from paintings by Louis Agassiz Fuertes. Through the months and years that fol-

lowed, similar triumphs were achieved by numbers dealing with horses, cattle, deep-sea fishes, birds, wild animals and other interesting creatures. From living models the intricacies of fin, feather, and fur, of leaf and petal were portrayed by the able brushes of Edward Herbert Miner, Hashime Murayama, William Crowder, Allan Brooks, Mary Eaton, Else Bostelmann and Mr. Fuertes. To preserve and make more widely available these color plates and text material The Society publishes its Nature Library, which now comprises ten volumes.

The spirit of romance and adventure behind the story of geography was admirably caught by N. C. Wyeth in his series of mural paintings on *Discovery for The Society's headquarters*, and reproductions of these were distributed to members as supplements. At the same time, J. R. Hildebrand in a series of articles set forth the personalities and the achievements of those courageous men who filled in huge gaps on the map of the world in the Age of Discovery—Columbus, Vasco da Gama, Magellan, Marco Polo, etc.

AGE OF AVIATION IN THE GEOGRAPHIC

But if one theme more than another has dominated the pages of geographic history since the war that subject is flying for the present decades are truly an Age of Aviation in which man has learned to use his wings and with them to widen his horizons in every direction. To this remarkable advance the titles of articles in past war GEOGRAPHICS form an interesting key.

Aerial Conquest of Mount Everest, *Air Adventures in Peru*, *America from the Air* (a unique series of photographs by Captain Albert W. Stevens), *The Arctic as an Air Route of the Future* by Vilhjalmur Stefansson, *Ballooning in the Stratosphere*, by Auguste Piccard, *By Seaplane to Six Continents* by Commander Francesco de Pinedo, *Canada from the Air*, *First Flight to the North Pole*, *Conquest of Antarctica by Air* and *Our Transatlantic Flight* by Rear Admiral Richard Evelyn Byrd, *Exploring the Earth's Stratosphere* and *The Non Stop Flight Across America* by Lieut. John A. Macready.

Exploring the Stratosphere, *Flying the Hump of the Andes*, *Exploring the Valley of the Amazon in a Hydroplane*, *Photographing the Eclipse of 1932 from the Air* by Captain A. W. Stevens, *Fighting Insects*

with Airplanes, *First Airship Flight Around the World* (Dr. Hugo Eckener tells The Society about it), *Flights from Arctic to Equator*, by Walter Mittelholzer, *Flying Around the North Atlantic*, by Charles A. Lindbergh and Anne Morrow Lindbergh, *Flying Over Egypt, Sinai, and Palestine*, *Flying the World's Longest Air Mail Route*, *From London to Australia by Aeroplane*, by Sir Ross Smith, *How Latin America Looks from the Air*, by Major Herbert A. Dargue, *Into Primeval Papua by Seaplane*, *On the Trail of the Air Mail and Looking Down on Europe*, by Lieut. J. Parker Van Zandt, *Man's Amazing Progress in Conquering the Air*, by J. R. Hildebrand, *Navigating the Yorge from Rome to the North Pole and Beyond* by Gen. Umberto Nobile, *On the Wings of the Wind* (in motorless planes) by Howard Siepen, *Our Conquest of the Pacific* by Kingsford Smith and Ulm, *Seeing America from the Shenandoah*.

President Coolidge Bestows Lindbergh Award, *Seeing America with Lindbergh*, *To Bogota and Back by Air*, by Charles A. Lindbergh, *Seeing the World from the Air*, by Sir Alan J. Cobham, *Seeing 3,000 Years of History in Four Hours* by Maynard Owen Williams, *Skypaths Through Latin America* by Frederick Simpich, *Unexplored Philippines from the Air*.

This is only a partial list, but what a thrilling story it tells of achievement in the air, and what an aviation library of first hand stories by the famous flyers themselves these volumes form!

During the last few years too flyers have gained the lion's share of The Society's coveted medals awarded for outstanding geographic accomplishments. Seven of the last eight medals have gone to aviators and the last two have been won by women flyers. The complete list of medals presented by the National Geographic Society at memorable special meetings which were honored by the presence of Presidents Theodore Roosevelt, Taft, Wilson, Coolidge and Hoover and are all recorded in The Society's Magazine is given in the index.

Glancing back through these 36 years of GEOGRAPHICS one sees how the growth of The Society has coincided with the growth of a national and international viewpoint. The eyes of the average man were turned with new interest toward the poles when explorers strove to conquer them toward the acquisitions of the United States in the

Spanish American War, toward Central and South America with the construction of the Panama Canal, toward the expansion in the West, toward Europe with the World War, and latterly toward the whole world, now that man has wings and the globe has greatly shrunk as measured in the time it takes to travel over it.

Throughout this entire period The Society has sought to present articles and pictures of a type to interest and inform the average intelligent man and woman. The growth in circulation from a paltry 165 to more than a million families is due in large part to this program.

INCREASE IN MEMBERSHIP DUE TO CO-OPERATION OF MEMBERS

We promised original members, if they would help to increase the number of members and thereby increase the funds available for obtaining material, that we would give them a better GEOGRAPHIC MAGAZINE.

Our promise was "Increase our circulation by getting us new members and thus increasing the funds available for investment in The Magazine and we will give you a better Magazine."

The members responded generously, and that we kept our promise is evidenced by comparing the successive volumes of The Magazine and consulting the duration of membership.

In size as well as quality The Magazine has grown year by year. The 12 issues for 1934, with 1,582 pages, form the fattest volume of all, and January-June, 1935, with 800 pages, outstrips any previous six months period.

All over the world go these beautifully printed yellow covered GEOGRAPHICS. One member's copy travels first by train, then by mighty ocean liner, by upriver sampan, by coolie courier, and finally by camel caravan to interior China. Other prosaic stencil record cards are magic keys to a monarch's gold bedecked palace in India, a South African ostrich farm, a tea plantation in Malaya, a jungle settlement among wild rubber trees of tropical Amazonia.

The tables on pages 14 and 15 show the geographical distribution of The Society's million members and the ratio of members to the population of each State.

From this vast host of members everywhere come hundreds of letters bearing witness to the influence of The Society, which soon will observe its 50th birthday.

"Whenever things get in a rut, life seems dull, walled in by monotonous repetitions or filled with perplexities, I pick up a NATIONAL GEOGRAPHIC, sit down and go traveling," writes a housewife. "I come back refreshed, enlightened, and more conscious of the fullness of life—and we are very likely to have something different for dinner that night."

"Father reaches for THE GEOGRAPHIC first, he says it gives him adventure and business perspective," writes another member. "Mother uses it for preparation for her woman's club—if the children have not grabbed it for a school assignment."

"I need my GEOGRAPHICS to interpret world news, to make these happenings seem real," writes a third.

"The most valuable bequest we have received this year," says a letter from a school principal, "was a set of bound volumes of the NATIONAL GEOGRAPHIC MAGAZINE, extending back 15 years."

"Though some were worn from much use, the member apparently having loaned them frequently, we were glad to receive them because we had tried in vain to obtain some issues, and prices quoted on others by rare book dealers were so costly they were prohibitive."

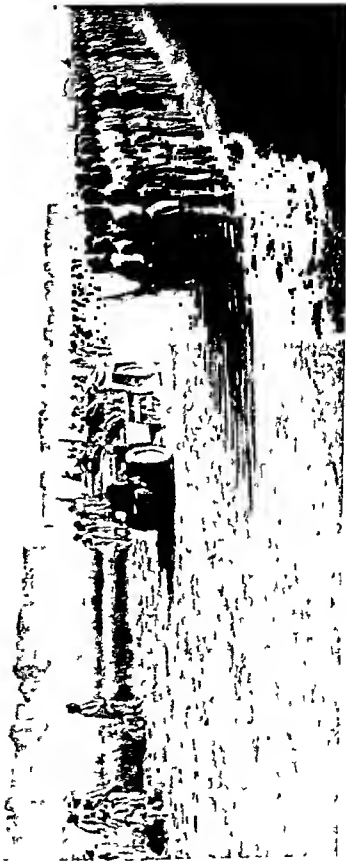
"Schools require no introduction to the NATIONAL GEOGRAPHIC," observes the *Minnesota Journal of Education*. "The

on history, science, and fiction."

From a member in Ireland comes this: "Need I say that I would sooner starve than go without my NATIONAL GEOGRAPHIC. We have nothing on this side of the Atlantic that can touch it."

A letter from a small Massachusetts town brings the annual dues and this confession: "The discontinuance of my membership was a sad mistake, which I have sincerely regretted during these dull days of depression. I have missed the bright color of your Magazine with its pictures of what is happening around the world. I have found that economy of dollars and cents is no compensation for the rejection of worth while things."

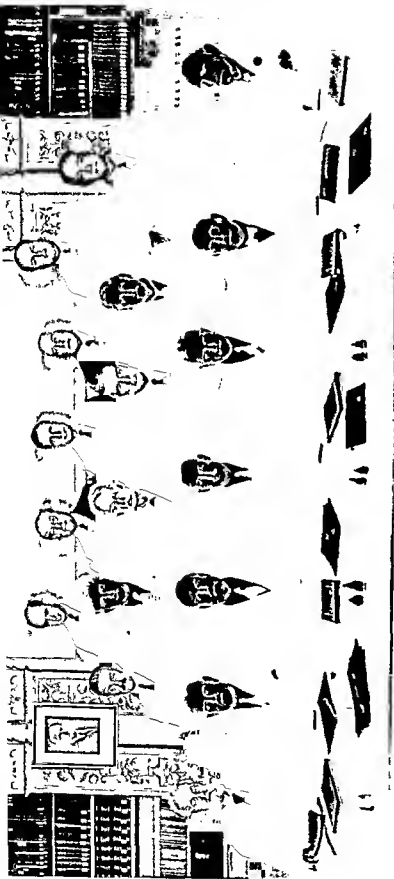
A missionary in Africa writes: "It would be impossible to overestimate the joy as well as benefit that we isolated missionaries derive from The Magazine, and not only the missionaries but also our people."



Maynard Owen Williams

TRACTOR TREADS IN THE FOOTPRINTS OF MARCO POLO

With the Haardt Trans Asiatic Expedition first to cross Asia by motorcar went Dr Maynard Owen Williams chief of The Society's foreign editorial staff. Overcoming mountain barriers two and a half miles high the fields vast deserts and plains inhabited by bandit tribes, eleven members of the expedition made the 7,500-mile journey from Syria to China in ten months—April 1931, to February, 1932. A wealth of photographs the first in natural color of Central Asia and much valuable scientific data were obtained concerning little known tribes, villages, and historic sites. Above the expedition crosses the great city walls of Farab, Afghanistan.



TRUSTEES AND OFFICERS OF THE NATIONAL GEOGRAPHIC SOCIETY IN 1930

Left to Right (seated): May Gen A W Greeley Dr John Oliver La Gorce (Vice President), Mr Chief Justice Charles Evans Hughes Dr Gilbert Grosvenor (President) Gen John J Pershing John Joy Edison (Treasurer) Dr O H Tuttmann *Second row:* Dr George R Putnam Dr George Otis Smith Dr C Hart Merriam Judge John Barton Payne Theodore W Noyes Dr Frederick V Coville *Top:* George W Hutchinson (Secretary), Dr John A Foote Captain Raymond S Patton Dr George K Burgess Robert V Fleming *Trustees not in Group:* Dr David Fairchild Dr J Howard Gore George Shuras 3d Charles G Dawes Dr Alexander Wetmore Admiral William V Pratt Dr Lyman J Briggs Walter S Gifford (who followed the late William Howard Taft) Calvin Coolidge O P Austin C M Chester and G K Burgess

Photograph by Charles Martin

Other expressions, taken at random, say "No one can possibly get more for their money, anywhere in the world, than for the contents of your monthly issues of the NATIONAL GEOGRAPHIC."

"I find that copies never grow old in interest, a rarity among magazines."

A WORLD OF "INFINITE VARIETY"

I am often asked, "What will THE GEOGRAPHIC do when subjects of geographic interest have been exhausted?" My invariable reply is, "Our world contains an infinite variety and an inexhaustible reservoir of geographic material of ever surprising interest, if we have but the wit to see and interpret it."

For "armchair traveling" there is no substitute for THE GEOGRAPHIC. Then, too, quick communications link all nations now, so that every man's interest in other parts of the world steadily increases. The day when history was formed by events that could be localized is gone. News and thoughts are now exchanged among nations almost instantaneously, so that the whole world is sensitive to important events in any of its parts. The epic story of these parts—and their ever-changing human and economic geography—is told in the GEOGRAPHIC MAGAZINE.

"Of all sciences," wrote Joseph Conrad in THE GEOGRAPHIC, "geography finds its origin in action, and, what is more, in adventurous action."

The volumes to which this Cumulative Index is the key, tell, subject by subject, the story of geographic action for the last 36 years.

THE SOCIETY IS THE PRODUCT OF MANY MINDS

The gratifying progress of the National Geographic Society has been possible because of the happy and harmonious unity of action which has ever animated the Board of Trustees and executive staff in carrying out the altruistic purpose and ideals of The Society. Of course, no member of the Board of Trustees or of the staff can ever acquire a financial interest in the National Geographic Society or its Magazine, nor when he severs his connection with The Society can he carry with him, or bequeath a tangible asset to represent his years of service with the organization.

The National Geographic Society staff

by operating The Society on sound business principles, and combining sagacity and energy with literary skill and patient research work, is enjoying hugely the rich experience of creating, and endowing in its own lifetime, a unique educational institution.

In conclusion, I desire to place in this record tributes of respect and admiration to Vice President John Oliver La Gorce, Secretary George W. Hutchison, and the late John Joy Edson, Treasurer of The Society from April 1, 1901, to July 15, 1935, that, on behalf of The Society and Board of Trustees, I presented to them at notable special meetings held in their honor. Many others have served The Society ably and long.

There is space to mention only those of 10 years' service on The Magazine.

Ralph A. Graves, ingenious and capable Assistant Editor from April 1, 1916, until his lamented death, September, 1932.

J. R. Hildebrand, Assistant Editor, since February, 1919, gifted writer and discerning critic.

Franklin L. Fisher, Chief of Division of Illustrations, since December 1, 1915, who

search Division, since April 1, 1914, author of many outstanding studies.

Maynard Owen Williams, erudite Chief of Foreign Editorial Staff, since June 1, 1919.

Frederick Simpich, Assistant Editor, who while a Foreign Service officer in Turkey, Mexico, and Germany, contributed many cogent articles to THE GEOGRAPHIC.

Albert H. Bumstead, Chief Cartographer since 1915 (see page XII).

Charles Martin, Chief of Photographic Laboratory, since 1915, specialist in color photography.

McFall Kerbey, competent Chief of School Service since September 10, 1920.

Melville Bell Grosvenor, Assistant Editor, alert and industrious, the fourth generation of his family privileged to serve The Society, since September, 1924.

ADDRESS BY GILBERT GROSVENOR AT THE 25TH EDITORIAL BIRTHDAY CELEBRATION OF DR. JOHN OLIVER LA GORCE, NOVEMBER 5, 1930.

We have assembled to celebrate the completion of 25 years distinguished service for

the National Geographic Society by Dr John Oliver La Gorce. Often we have greeted with applause men who, in their search for new knowledge, have carried the banner of The Society to remote places, to the Poles, to Alaska, to China, South America. Equally worthy of recognition and honor is one who has given a quarter century striving mightily and brilliantly to help create this great organization, which supports the explorers, arouses public sentiment to the importance of their work, and makes the reports of their discoveries available to the public.

When our guest of honor, Dr John Oliver La Gorce, joined the staff of the National Geographic Society, 25 years ago it was a small organization of only 10,000. But his responsive nature and keen intellect recognized the possibilities ahead for the National Geographic Society, and his generous heart was stirred to identify his life with a work that promised to promote effectively the welfare of mankind.

In everything The Society has done since, he has been identified. Many of our useful and interesting projects he originated. He has labored with love and ceaseless energy to help develop the organization and bring it to the dignified position it now holds in the life of our country.

The National Geographic Society is the product of many minds and of much labor of many men and women, but it is a conservative statement that without the powerful assistance of John Oliver La Gorce's personality, its gratifying progress would have been impossible.

As evidence of appreciation and encouragement, and in confident hope that the National Geographic Society may benefit for at least another quarter century from his indefatigable energy, altruistic ideals and wide experience, the Board of Trustees present to him this Globe Atlas of The World on which has been inscribed the following

PRESENTED TO
JOHN OLIVER LA GORCE

BY THE

BOARD OF TRUSTEES OF THE NATIONAL
GEOGRAPHIC SOCIETY

IN RECOGNITION OF
TWENTY FIVE YEARS OF DISTINGUISHED
SERVICE TO
THE SOCIETY

NOVEMBER 5 1932

ADDRESS BY GILBERT GROSVENOR ON THE
OCCASION OF MR GEORGE W HUTCHISON'S
25TH ANNIVERSARY WITH THE
NATIONAL GEOGRAPHIC SOCIETY, DECEMBER,
1932

The first of this month marks the completion of twenty five years of devoted and remarkably efficient service to the National Geographic Society by our resourceful colleague, George W Hutchison.

We who are so closely associated with him—Mr Edson, Dr La Gorce, Dr Coville, and myself, for the entire period—have desired to signalize the anniversary of the happy day when he joined forces with us in some manner agreeable to him.

Because of his modesty, we all are aware that he would be most comfortable if we allowed the event to pass unnoticed, or arranged for him to slip off for a few extra hours to the famous Hutchison ducking camp on the Potomac.

But our hearts would not be content unless we were granted an opportunity all together to express our united esteem and affection for George Hutchison personally and to place on record some recognition of his notable, his invaluable part in the building of this institution to which we all devote our energy and strength.

Every large organization must have one officer who delights in detail and has an extraordinary capacity for it, and whose duties require him to say to his associates "No" 99 times and "Yes" once. Sometimes this official becomes austere, harsh, and crabbed. From him his associates are apt to shy.

But twenty five years of serving as buffer against aggressive contractors and making business decisions have only increased the warmth of George W Hutchison's distinctive and attractive personality.

Ever vigilant and alert for any mechanical or human improvement that will advance The Society's membership interests, always alert for any trespass on The Society's rights, tenacious, straightforward, prudent, George W Hutchison continues always cheerful, genial, and cordial, sympathetic and wise friend, whose counsel every one of his fellow workers seeks when perplexed.

ADDRESS BY GILBERT GROSVENOR AT THE
TESTIMONIAL DINNER BY THE CITIZENS
OF WASHINGTON, D. C., IN HONOR OF
JOHN JOY EDSON IN CELEBRATION OF HIS
SEVENTY-FIFTH BIRTHDAY, MAY 17, 1921

Several years ago ex President Taft, on arriving at the auditorium where he was to read an address to the members of the National Geographic Society, discovered that he had left his reading glasses at home. Perhaps some of you were there and remember the jolly fifteen minutes that followed. The ushers passed hats while Judge Taft asked for volunteers to lend their spectacles. Every lady and gentleman in that audience seemed to be wearing glasses of some kind that night, judging from the heaps which reached the platform.

Mr. John Joy Edson was present, and in typical Edson manner was among the first to volunteer. After trying a number of spectacles Judge Taft hooked Mr. Edson's over his ears and they fitted perfectly, and the lecture proceeded.

Those of us who have had the wonderful good fortune to be associated with you, Mr. Edson, like to recall this little story. It was so characteristic of you. Whether the matter is trivial or important, you are always eager and alert to lend a hand, and you are always effective.

Probably you have forgotten the incident, as you have a thousand other friendly acts, for after every good turn you shake that great, big head of yours and all remembrance of your own kind deeds fades out of your mind just as a duck shakes the water off its back, and you march on, intent only to find another opportunity for service.

The members of the organization which I have been invited to represent are most mindful of what you, Mr. Edson, have done for it and our affection for and gratitude to you are very deep. It is just twenty years since a notable company of explorers, scientists, and educators gathered in the home of Alexander Graham Bell were sorely perplexed. They believed they had a plan for developing an organization that if realized would render immense service to mankind by making people acquainted with each other, and thus overcoming that ancient and unfortunate human prejudice which calls all unknown people barbarians. We needed for a balance wheel a Treasurer who possessed vision as well as business acumen. How well I remember our relief

and joy when Dr. Bell, then President of The Society, suggested your name, and you accepted. The Society was rather small in those days (April 1, 1901), twenty-five hundred members in all, and the paid staff consisted of two persons!

As we had expected when we persuaded you to accept the post as a labor of love, you initiated policies that have been important in its growth and success and, largely as a result of your wisdom and unswerving cooperation, there has been created in the Nation's Capital an altruistic educational institution whose beneficent influence extends throughout the entire globe.

Today in every hamlet of twenty-five white people in the United States there is at least one representative of The Society who is giving to his community the benefit of the knowledge which he receives from The Society's journal, and seven hundred thousand members, distributed in every part of the United States of America, glow with the realization that each is an active and equal part of a great social institution which makes the world better by enabling its inhabitants to become acquainted with, and thus appreciative of, one another.

The previous speakers, Mr. Edson, have referred to many of your contributions to humanity in the Nation's Capital, but we venture to believe that none is cherished in more hearts and in such distant lands as your prominent intellectual part in the building of the National Geographic Society.

PRESIDENTS OF THE NATIONAL GEOGRAPHIC SOCIETY

GARDINER GREENE HUBBARD 1888-1897
(January 27, 1888—died December 11, 1897)

ALEXANDER GRAHAM BELL, 1898-1903
(January 7, 1898—resigned October, 1903)

W. J. MCGEE, 1904 (March 5, 1904—April, 1904)

GROVE KARL GILBERT, Acting President, 1904 (W. J. McGee moved to St. Louis in April 1904)

WILLIS MOORE 1905-1909 (January 27, 1905—resigned December 1909)

HENRY GANNETT, 1910-1914 (January 19, 1910—died November 3, 1914)

O. H. TITTMANN 1915-1919 (January 20, 1915—resigned April 1919)

JOHN F. PILLSBURY 1919 (April 1, 1919—died December 29, 1919)

GILBERT GROSVENOR 1920 (January 2, 1920)

MEMBERS OF THE BOARD OF TRUSTEES
(FORMERLY CALLED BOARD OF MANAGERS)
OF THE NATIONAL GEOGRAPHIC SOCIETY,
WITH YEAR OF ELECTION TO BOARD AND
YEAR OF RETIREMENT BECAUSE OF DEATH
OR RESIGNATION.

CLEVELAND ABEL 1888 (r 1890)
O P ALSTIN, 1903 (d 1933)
CARL C BARN 1893 (r 1895)
MARCUS BAKER 1888 (d 1903)
J R BARTLETT, 1888 (r 1889)
ALEXANDER GRAHAM BELL 1898 (d 1922)
R N BATCHELDER 1893 (r 1894)
CHARLES J BELL, 1888 (d 1920)
ROBERT BIRNIE JR 1888 (r 1891)
HENRY I BLOUNT 1892 (d 1917)
LYMAN J BRIGGS 1933
ALFRED H BROOKS 1905 (r 1906)
GEORGE K BERGFESS 1930 (d 1932)
COLBY M CHESTER 1904 (d 1932)
T C CHAMBERLAIN 1905 (r 1911)
CALVIN COOLIDGE 1929 (d 1933)
I V COVILLE 1897
C W DARNLEY, JR 1895 (r 1897)
WILLIAM H DALL, 1896 (r 1899)
CHARLES G DAWES 1924
GEORGE DAVIDSON, 1901 (r 1911)
WILLIAM M DAVIS 1901 (r 1904)
DAVID T DAY, 1896 (r 1903)
CHARLES DENBY, 1907 (r 1907)
JOHN JOY EASON, 1901 (d 1935)
DAVID FAIRCHILD 1905
ROBERT A FLEMING 1929
JOHN FOOTE 1924 (d 1931)
HENRY GANNETT 1888 (d 1914)
WALTER S GIFFORD 1933
G K GILBERT 1890 (r 1905)
DANIEL C GILMAN 1901 (d 1905)
G BROWN GOODF 1888 (d 1896)
J HOWARD GORE 1906
A W GREENE 1888
EDWIN P GROSVENOR 1929 (d 1930)
GILBERT GROSVENOR 1905
EVERETT HAYDEN 1890 (r 1898)
ALFRED J HENRY 1900 (r 1911)
DAVID J HILL 1899 (r 1903)
ANGELO HEILPRIN 1901 (d 1907)
RUSSELL HINMAN 1901 (r 1905)
GARONER GREENE HUBBARD 1888 (d 1897)
CHARLES EVANS HUGHES 1930

GEORGE W HUTCHINSON 1935
JOHN HALE 1892 (r 1901)
WILLARD D JOHNSON 1888 (r 1891)
F ESTER JONES 1921 (d 1929)
RUDOLPH KAUFMANN, 1906 (d 1927)
S H KAUFMANN, 1899 (d 1905)
C A KENASTON, 1888 (r 1891)
GEORGE KENNAN 1888 (r 1889)
JOHN OLIVER LA GORCE 1920
FRANKLIN K LANE, 1911 (d 1921)
W J MCGEE 1890 (r 1904)
T I MACDONALD 1907 (d 1924)
STEPHEN F MATHER, 1921 (d 1930)
GEORGE W McVAILL, 1894 (r 1895)
T C Mendenhall 1890 (r 1894)
C HART MERRIAM 1888
HENRY MITCHELL, 1888 (r 1889)
WILLIAM I MOORE, 1899 (r 1910)
I H NEWELL 1892 (r 1899)
S N D NORTH, 1906 (d 1924)
THOMAS W NOYES, 1927
HERBERT G OGDEN 1888 (r 1898)
RAYMOND S PATTON, 1930
JOHN BARTON PAYNE 1923 (d 1935)
ROBERT I PEARLY, 1919 (d 1920)
JOHN J PERSHINE 1927
JOHN F PILLSBURY, 1909 (d 1920)
GILFORD PINCHOT, 1901 (r 1902)
W B POWELL, 1888 (r 1899)
WILLIAM V PRATT, 1933
HENRY S PRITCHETT, 1888 (r 1901)
J R PROCTOR 1895 (r 1896)
GEORGE R PUTNAM 1912
W W ROCKWELL 1895 (r 1896)
ISRAEL C RUSSELL, 1902 (d 1906)
R D SALISBURY 1901 (r 1906)
F R SCHMIDT, 1892 (r 1896)
GEORGE SHIRAS, 3d 1911
GRANT SQUIRES 1911 (d 1928)
GEORGE OTIS SMITH 1907
JOSEPH STANLEY BROWN, 1899 (r 1900)
WILLIAM HOWARD TAFT, 1917 (d 1930)
A H THOMPSON, 1888 (r 1891)
O H TITTMANN 1888
B H WARDER 1890 (r 1891)
J C WELLING 1888 (r 1891)
ALEXANDER WETMORE 1933
HENRY WHITE 1915 (d 1927)
J B WIGHT 1896 (r 1897)
EDWIN WILLIAMS 1892 (d 1895)
JOHN M WILSON 1905 (d 1919)

GEOGRAPHICAL DISTRIBUTION OF MEMBERS OF THE NATIONAL GEOGRAPHIC SOCIETY, MAY, 1935

United States

Alabama	4,550
Arizona	3,364
Arkansas	2,404
California	92,905
Colorado	9,032
Connecticut	18,300
Delaware	2,249
Florida	10,197
Georgia	6,268
Idaho	3,730
Illinois	49,678
Indiana	16,548
Iowa	13,272
Kansas	10,369
Kentucky	6,277
Louisiana	5,259
Maine	9,729
Maryland	13,013
Massachusetts	46,565
Michigan	30,483
Minnesota	16,625
Mississippi	2,405
Missouri	16,315
Montana	5,064
Nebraska	8,516
Nevada	1,228
New Hampshire	5,286
New Jersey	47,225
New Mexico	2,000
New York	120,761
North Carolina	7,580
North Dakota	2,750
Ohio	50,416
Oklahoma	8,437
Oregon	13,989
Pennsylvania	71,741
Rhode Island	6,751
South Carolina	3,121
South Dakota	4,061
Tennessee	6,046
Texas	23,895
Utah	3,357
Vermont	3,604
Virginia	11,530
Washington	19,920
West Virginia	6,308
Wisconsin	18,860
Wyoming	2,557
District of Columbia	9,993

United States Territories etc

Canada	37,127
Foreign	107,245
Miscellaneous	3,023

Total	1,008,694
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U. S. Territories and Possessions

Alaska	1,191
Canal Zone	757
Guam	14
Hawaii	2,640
Philippine Islands	1,319
Puerto Rico	760
Samoa (American)	12
Virgin Islands	15
Total	6,749

Canada

Alberta	3,070
British Columbia	5,379
Manitoba	1,976
New Brunswick	860
Northwest Territory	35
Nova Scotia	1,418
Ontario	15,136
Prince Edward Island	138
Quebec	7,078
Saskatchewan	1,944
Yukon Territory	93

Total	37,127
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Central America

Costa Rica	208
Guatemala	379
Honduras	223
Nicaragua	75
Panama	118
Salvador	136

Total	1,139
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South America

Argentina	2,454
Bolivia	138
Brazil	2,181
Chile	776
Colombia	512
Ecuador	137
British, French, and Dutch Guiana	111
Paraguay	32
Peru	542
Uruguay	229
Venezuela	584

Total	7,696
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Mexico

Mexico	2,926
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Asia

Afghanistan	14
Arabia	27
China	1,895
French Indo-China	53
Hong Kong	280
India	2,153
Iran (Persia)	198
Iraq	68
Japan	916
Levant States (Syria)	106
Palestine	186
Siam	170
Siberia	4
Straits Settlements	465
Turkey	219

Total	6,749
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Europe

Albania	17
Austria	132
Belgium	1,225
Bulgaria	10
Czechoslovakia	851
Danzig	13
Denmark	245

Estonia	66
Finland	236
France	2,507
Germany	1,995
Gibraltar	10
Great Britain and Ireland	40,561
Greece	236
Hungary	310
Italy	2,066
Latvia	111
Lithuania	48
Luxembourg	31
Monaco	29
Netherlands	2,361
Norway	1,300
Poland	393
Portugal	561
Romania	243
Spain	1,560
Sweden	172
Switzerland	2,270
Union of Soviet Socialist Republics	96
Yugoslavia	233
Total	67,325

Africa

Africa	7,039
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West Indies Bermuda etc

Aruba	67
Bahamas	57
Barbados	109
Bermuda	240
Cuba	1,539
Curaçao	116
Dominican Republic	183
Haiti	89
Isle of Pines	19
Jamaica	283
Leeward Islands	43
Martinique	27
Trinidad	271
Windward Islands	50
Miscellaneous	7
Total	3,100

Islands Miscellaneous

Ascension	2
Azores	80
Canary	61
Cook	9
Cyprus	28
Falkland	10
Fiji	90
Iceland	27
Madeira	41
Malta	53
New Caledonia	5
Newfoundland	336
New Hebrides	9
Norfolk	2
Samoa	33
Society	16
Solomon	18
Tonga or Friendly	8
Miscellaneous	65
Total	888

Netherlands (East) Indies

Billiton	4
Borneo	74
Celebes	37
Java	497
New Guinea and Papua	96
Sumatra	213
Timor	16
Miscellaneous	26
Total	963

Australia

Australia (including Tasmania)	10,372
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New Zealand

New Zealand	4,049
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RATIO OF MEMBERS TO POPULATION OF EACH STATE

1 District of Columbia	1 52
2 California	1 63
3 Oregon	1 70
4 Nevada	1 78
5 Washington	1 81
6 New Jersey	1 87
7 Connecticut	1 90
8 New Hampshire	1 90
9 Wyoming	1 92
10 Massachusetts	1 93
11 Vermont	1 101
12 Rhode Island	1 104
13 Maine	1 105
14 New York	1 108
15 Delaware	1 108
16 Montana	1 109
17 Colorado	1 119
18 Idaho	1 122
19 Maryland	1 128
20 Ohio	1 135
21 Arizona	1 135
22 Pennsylvania	1 137
23 Florida	1 148
24 Utah	1 157
25 Illinois	1 158
26 Wisconsin	1 159
27 Minnesota	1 161
28 Michigan	1 164
29 Nebraska	1 167
30 South Dakota	1 183
31 Kansas	1 186
32 Iowa	1 191
33 Indiana	1 201
34 Virginia	1 215
35 New Mexico	1 218
36 Missouri	1 230
37 Texas	1 253
38 North Dakota	1 255
39 West Virginia	1 279
40 Oklahoma	1 293
41 Louisiana	1-416
42 Kentucky	1-426
43 North Carolina	1-431
44 Tennessee	1-453
45 Georgia	1-479
46 South Carolina	1 567
47 Alabama	1 596
48 Arkansas	1 801
49 Mississippi	1 861



Photograph by Edw. S. L. R. Lord

ALL WHO ENTER ITS PORTALS LEAVE WITH A GREATER KNOWLEDGE OF THE WORLD AND ITS PEOPLES

Snow-etched branches frame the illuminated facade of the executive and editorial offices of the National Geographic Society on Sixteenth Street in Washington, D. C. Here in 1913 will be observed the half-century anniversary of The Society whose million members reside in every civilized community of the world.

NATIONAL GEOGRAPHIC MAGAZINE

CUMULATIVE INDEX

January, 1899-December, 1934

(*) Out of Print

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- Abbot, C. G.**
Do Volcanic Explosions Affect Our Climate? By C. G. Abbot Vol XXIV, pp 181-193, 9 pls, 1 diagram, Feb., 1913 *
- Hunting an Observatory A Successful Search for a Dry Mountain on Which to Establish the National Geographic Society's Solar Radiation Station** By C. G. Abbot Vol L, pp 503-518, 13 pls, 1 quarter page map, Oct., 1929 75c.
- Measuring the Sun's Heat and Forecasting the Weather** The National Geographic Society to Maintain a Solar Station in a Remote Part of the World to Coöperate with Smithsonian Institution Stations in California and Chile By C. G. Abbot Vol XLIX, pp 111-126, 13 pls, 1 chart, Jan., 1926 50c
- Abbot, John W.**
Buried City of Ceylon By John M. Abbot Vol XVII, pp 613-622, 8 pls, Nov., 1900 *
- Abruzzi, Duke of the**
Duke of the Abruzzi in the Himalayas Vol XVI, pp 245-249, Mar., 1910 *
- Honors to Peary** (Presentation of Hubbard Medal) Vol XXIII, pp 49-60, 1 ill., Jan., 1907 75c
- Abydos, Egypt**
Excavations at Abydos Vol XIV, pp 358-359 Sept., 1903 *
- Reconstructing Egypt's History** By Wallace N. Stearns Vol XXIV, pp 1021-1042, 21 pls Sept., 1913 *
- Resurrection of Ancient Egypt** By James Baikie Vol XXIV, pp 957-1020, 46 pls., 1 page map, Sept., 1913 *
- Sacred Ibis Cemetery and Jackal Catacombs at Abydos** By Camden M. Cobern Vol XXIV, pp 1042-1056 10 pls, Sept., 1913 *
- Abyssinia.** See *Ethiopia*
- Abyssinia, the Country and People** By Oscar T. Crosby Vol XII, pp 89-102, Mar. 1901 *
- Aces Among Aces (Aviators)** By Lawrence La Tourette Driggs Vol XXXIII, pp 563-580, 9 pls, June 1918 50c
- Aces of Aviation (Gulls)** 16 pls from photographs by A. H. Hall Vol XLVII, pp 663-672, June 1925 50c
- Aces of the Air** By Capt. Jacques De Sleyes. Vol XXXIII, pp 5-9, 2 pls, Jan. 1918 *
- Acorns, a Possibly Neglected Source of Food.** By C. Hart Merriam Vol XXXIV pp 129-137, 8 pls Aug., 1918 50c
- Across French and Spanish Morocco** By Harriet Chalmers Adams Vol XLVII, pp 327-350, 19 pls in black and white, 10 pls in color, 1 half page map, Mar., 1925 50c
- Across Madagascar by Boat, Auto, Railroad, and Elephanza** By Charles F. Swingle Vol LVI, pp 479-511, 42 pls, 1 half page and 1 three-quarters page maps, Aug., 1929 50c
- Across the Equator with the American Navy** By Herbert Corey. Vol XXXIX, pp 571-624, 53 pls, June, 1921 50c
- Across the Mide in a Canoe** Two Americans Paddle Along the Canals of Southern France from the Atlantic to the Mediterranean By Merrill Chater Vol LII pp 127-167, 49 pls, 1 half page map Aug., 1927 50c
- Across Wildest Africa (Ethiopia, French Somaliland and Inner Country)** By A. Henry Savage Landor Vol XIX, pp 694-737, 88 pls, 1 half page map, Oct., 1908 75c
- Adalia, Turkey**
Historic Islands and Shores of the Aegean Sea By Ernest Lloyd Harris Vol XXVIII, pp 231-262, 29 pls, 1 half page map Sept., 1915 50c
- Adam, Tassilo**
Java Queen of the East Indies 3 pls in color from autochromes by Tassilo Adam Vol LVI, pp 334-359, Sept., 1929 50c
- Adams, Clifton**
Arizona Adventures in Arizona Color Photography 14 pls in color from autochromes by Clifton Adams Vol LV pp 23-37, Jan., 1929 50c
- California Sunshine Land of Fruits, Flowers, Movies, and Sport** 27 pls in color from natural color photographs by Clifton Adams Vol LXVI, pp 545-552, 669-578, Nov., 1934 50c
- Chicago, Titan of the Middle West** 12 pls in color from direct color photographs by Clifton Adams Vol LIX, pp 584-593, May, 1931 50c
- England Cradles of English History** 14 pls in color from natural-color photographs by Clifton Adams Vol LIX, pp 268-277, Mar., 1931 50c
- England From Stratford to the North Sea** 16 pls in color from autochromes by Clifton Adams Vol LV pp 616-625 May, 1929 50c
- England Lakeland, Home of England's Nature Poets** 15 pls in color from autochromes by Clifton Adams Vol LV pp 592-601, May, 1929 50c

Adams Clifton—Continued

- England. *Nooks and Nays of Storied England* 11 pls in color from natural color photographs by Clifton Adams Vol LXI pp 187-191 Feb 1932 50c
- Florida. *High Lights in the Sunshine State* 38 pls in color from autochromes by Clifton Adams Vol LVII pp 70-83 Jan 1930 50c
- Gettysburg. *Most Famous Battle Field in America* 9 pls in color from natural color photographs by Clifton Adams and Green R. Loudon Vol LV pp 66-75 July 1931 50c
- Haiti. *Gay Colors in the Land of Black Majesty* 13 pls in color from natural color photographs by Clifton Adams Vol LXVI pp 443-457 Oct 1934 50c
- Illinois. *Rambles Through the Prairie State* 15 pls in color from direct color photographs by Clifton Adams Vol LX pp 544-553 May 1931 50c
- Ireland. *Hills and Daies of Erin* 11 pls in color from autochromes by Clifton Adams Vol II pp 316-333 Mar 1927 50c
- London. *High Lights of London Town* 15 pls in color from autochromes by Clifton Adams Vol LV pp 569-577 May 1929 50c
- Massachusetts. *Coasting Through the Bay State* 12 pls in color from natural color photographs by Clifton Adams Vol LX pp 286-295 Sept. 1931 50c
- Mexico. *In the Land of the Mantesomas* 10 pls in color from photographs by Clifton Adams Vol XLIII pp 263-280 Mar 1923 50c
- Mount Vernon. *Home of the First Farmer of America* 18 pls in color from autochromes by Clifton Adams Vol LIII pp 694-721 May 1928 50c
- New England. *Wonderland of Mountain Lake and Seascape* 14 pls in color from natural color photographs by Clifton Adams Vol LX pp 707-721 Sept 1931 50c
- New York (City). *Tempe and Color of a Great City* 42 pls in color from natural color photographs by Clifton Adams and Edwin L. Wisnerd Vol LVIII pp 538-579 Nov 1930 50c
- New York (State). *Color Highlights of the Empire State* 30 pls in color from natural color photographs by Clifton Adams Vol LXIV pp 529-536 553-560 563-576 Nov 1933 *
- Philadelphia. *Colorful Corners of the City of Homes* 13 pls in color from natural color photographs by Clifton Adams and Edwin L. Wisnerd. Vol LXII pp 674-683 Dec 1932 50c
- Rhode Island. *Sauntering Through the Land of Roger Williams* 14 pls in color from natural color photographs by Clifton Adams. Vol. LX pp 310-319 Sept 1931 50c
- Sardinia. *Sardinian Smiles* 16 pls in color from photographs by Clifton Adams Vol XLIII pp 31-46 Jan 1923 *
- Vermont. *Green Mountain State* 6 pls in color from autochromes by Clifton Adams Vol. LI pp 316-333 Mar 1927 50c

Adams Clifton—Continued

- Virginia. *Scenes and Steins of the Cavalier Country* 3 pls in color from natural color photographs by Clifton Adams Vol LV pp 424-437 Apr 1929 50c
- Washington D C. *Our Colorful City of Magnificent Distances* 17 pls in color from natural color photographs by Clifton Adams Vol LX pp 530-611 Nov., 1931 50c
- Washington D C. *Secrets of Washington's Lure* 2 pls in color from natural color photographs by Clifton Adams Vol LVII pp 36-385 Mar 1930 50c
- Washington D C. *Uniquer Gifts of Washington to the Nation* 2 pls in color from natural color photographs by Clifton Adams. Vol LV pp 477-481 Apr 1929 50c
- Washington (State). *Sunset Hues in the Pacific Northwest* 8 pls in color from natural color photographs by Clifton Adams Vol LXVIII pp 154-163 Feb 1933 50c
- Washington (State). *Where the Last of the West Was Won* 4 pls in color from natural color photographs by Clifton Adams Vol LXVIII pp 173-187 Feb 1933 50c
- Adams Cyrus C:
United States—Land and Waters By Cyrus C Adams Vol XIV pp 170-185 8 pls 1 half page map May 1903 *
- Adams Harriet Chalmers:
Across French and Spanish Morocco By Harriet Chalmers Adams Vol XLVII pp 377-386 19 pls in black and white 16 pls in color 1 half page map Mar 1923 50c
- Adventurous Sojourn of Cadiz (Spain)* By Harriet Chalmers Adams Vol XLVI pp 153-204 37 pls in black and white 20 pls in color Aug 1924 50c
- Along the Old Inca Highway (Peru)* By Harriet Chalmers Adams Vol XIX pp 731-750 21 pls Apr 1908 75c
- Barcelona. Pride of the Catalans.* By Harriet Chalmers Adams Vol LV pp 373-407 37 pls Mar 1929 50c
- Circenaica. Eastern Wing of Italian Libya* By Harriet Chalmers Adams Vol LVII pp 689-726 35 pls in black and white 13 pls in color 1 two thirds page map June 1930 50c
- Curco. America's Ancient Mecca* By Harriet Chalmers Adams Vol. XIX, pp 860-680 19 pls Oct 1908 75c.
- East Indians in the New World (Trinidad)* By Harriet Chalmers Adams Vol XVIII pp 485-491 6 pls. July 1907 75c
- First Transandine Railroad from Buenos Aires to Valparaiso* By Harriet Chalmers Adams Vol XXI pp 397-417 14 pls 1 fourth page map May 1910 *
- Grand Canyon Bridge* By Harriet Chalmers Adams Vol XXXIX pp 645-650 6 pls June 1921 50c
- In French Lorraine. That Part of France Where the First American Soldiers Have Fallen* By Harriet Chalmers Adams Vol XXXII pp 499-518 16 pls Nov Dec 1917 50c

Adams, Harriet Chalmers—Continued

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- Part I, Vol. XII, pp. 152-157, Apr., 1901.
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Nelson, Wilbur A.

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Picard, Auguste

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*Paper 50 cents. Linen 75 cents.
Index 25 cents add 1 cent.*

Europe and the Near East

Published in 1929. 39 x 34 $\frac{1}{4}$ inches. Ten colors. Hand lettered. Gives local official names and English equivalents.

*Paper 55 cents. Linen 75 cents.
Index 25 cents add 1 cent.*

The Antarctic Regions

26 $\frac{3}{4}$ x 19 $\frac{3}{4}$ inches. Four colors. Shows routes of all Antarctic explorers up to October 1932.

Paper 50 cents. Linen 75 cents.

George Washington's Travels

Published in 1932 as part of The Society's contribution to the Bicentennial Celebration of George Washington's birth. Five colors. 29 $\frac{1}{4}$ x 20 inches.

Paper 50 cents. Linen 75 cents.

State Maps

Illinois Map, Florida Map, Louisiana Map, North Carolina, South Carolina, Georgia, and Eastern

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1914 in

15 $\frac{1}{4}$ x Maryland, etc. 17 x 10 $\frac{3}{4}$

Paper 50 cents each. Linen 75 cents each.

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flower biographies 243 pages Revised 1933
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D. C. 154 pages 118 monochrome en-
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SUPPLEMENT TO THE CUMULATIVE INDEX

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